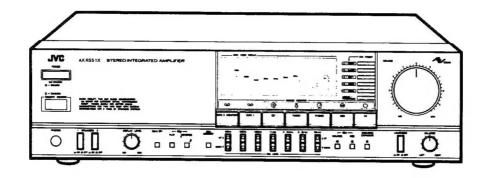
AX-R551XBK

JVC

SERVICE MANUAL

STEREO INTEGRATED AMPLIFIER

MODEL No. AX-R551XBK



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Safety Precautions

- The design of this product contains special hardware and may circuits and components specially for safety purposes.
 For continued protection, no changes should be made to the original design unless authorized in writing by the manufacturer. Replacement parts must be identical to those used in the original circuits. Service should be performed by qualified personnel only.
- 2. Alterations of the design or circuitry of the product should not be made. Any design alterations of the product should not be made. Any design alterations or additions will void the manufacturer's warranty and will further relieve the manufacturer of responsibility for personal injury or property damage resulting therefrom.
- 3. Many electrical and mechanical parts in the product have special safety-related characteristics. These characteristics are often not evident from visual inspection nor can the protection afforded by them necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in the Parts List of Service Manual. Electrical components having such features are identified by shading on the schematics and by () on the Parts List in the Service Manual. The use of a substitute replacement which does not have the same safety characteristics as the recommended replacement part shown in the Parts List of Service Manual may create shock, fire, or other hazards.
- 4. The leads in the products are routed and dressed with ties, clamps, tubings, barriers and the like to be separated from live parts, high temperature parts, moving parts and/or sharp edges for the prevention of electric shock and fire hazard. When service is required, the original lead routing and dress should be observed, and it should be confirmed that they have been returned to normal, after re-assembling.
- 5. Leakage current check (Electrical shock hazard testing)

After re-assembling the product, always perform an isolation check on the exposed metal parts of the product (antenna terminals, knobs, metal cabinet, screw heads, headphone jack, control shafts, etc.) to be sure the product is safe to operate without danger of electrical shock.

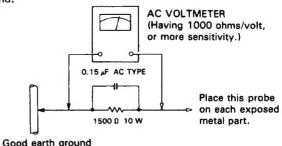
Do not use a line isolation transformer during this check.

- Plug the AC line cord directly into the AC outlet. Using a "Leakage Current Tester", measure the leakage current
 from each exposed metal part of the cabinet, particularly any exposed metal part having a return path to the
 chassis, to a known good earth ground. Any leakage current must not exceed 0.5 mA AC (r.m.s.).
- · Alternate check method

Plug the AC line cord directly into the AC outlet. Use an AC voltmeter having 1,000 ohms per volt or more sensitivity in the following manner. Connect a 1,500 Ω 10 W resistor paralleled by a 0.15 μ F AC-type capacitor between an exposed metal part and a known good earth ground.

Measure the AC voltage across the resistor with the AC voltmeter.

Move the resistor connection to each exposed metal part, particularly any exposed metal part having a return path to the chassis, and measure the AC voltage across the resistor. Now, reverse the plug in the AC outlet and repeat each measurement. Any voltage measured must not exceed 0.75 V AC (r.m.s.). This corresponds to 0.5 mA AC (r.m.s.).



Warning

- 1. This equipment has been designed and manufactured to meet international safety standards.
- 2. It is the legal responsibility of the repairer to ensure that these safety standards are maintained.
- 3. Repairs must be made in accordance with the relevant safety standards.
- 4. It is essential that safety critical components are replaced by approved parts.
- 5. If mains voltage selector is provided, check setting for local voltage.

Specifications

For Europe, Australia, Germany and U.K.: 85 watts per channel into 8 ohms at 1 kHz

75 watts per channel, min. RMS, both channels driven, into 8 ohms from 20 Hz to 20 kHz, with no more than 0.007% total harmonic distortion.

80 watts per channel, min. RMS, both channels driven, into 8 ohms at 1 kHz with no more than 0.003% total harmonic distortion.

For Other areas:

100 watts per channel, min. RMS, both channels driven, into 8 ohms from 20 Hz to 20 kHz, with no more than 0.03% total harmonic distortion.

100 watts per channel, min. RMS, both channels driven, into 8 ohms at 1 kHz with no more than 0.007% total harmonic distor-

(measured by JVC Audio Analyzer System)

Total harmonic distortion

: 0,007% (20 Hz -20 kHz, 8 ohms) at 75 watts (For Europe, Australia, Germany and U.K.) 0.03% (20 Hz -20 kHz, 8 ohms) at 100 watts (For other area)

Power band width

: 7 Hz - 60 kHz ('66 IHF 0.05%, 8 ohms, both channels driven) (For Europe, Australia, Germany and U.K.) 10 Hz - 30 kHz ('66 IHF 0.2%, 8 ohms, both channels driven) (For other area)

Frequency response : 6 Hz - 70 kHz, +0.5, -3 dB (8 ohms) (For Europe, Australia, Germany and U.K.) 10 Hz - 50 kHz, +0.5, -3 dB (8 ohms) (For other areas)

Input terminals Input sensitivity/ impedance (1 kHz)

> PHONO : 2.5 mV/47 kohms TUNER, CD, 200 mV/35 kohms TAPE 1, VCR, TV,

TAPE 2 MONITOR

Signal-to-noise ratio

70 dB ('66 IHF) **PHONO**

78 dB ('78 IHF, Rec

Out) 67 dB (DIN)

TUNER, CD, : 97 dB ('66 IHF) TAPE 1, VCR 74 dB ('78 IHF, TV, TAPE 2 Speaker Out) MONITOR 68 dB (DIN)

S.E.A. graphic equalizer

Center frequencies: 63 Hz, 160 Hz, 400 Hz,

1 kHz, 2.5 kHz,

6.3 kHz, 16 kHz : +12 dB ±1 dB,

Control range -12 dB ±1 dB

Loudness controls (Volume control at

: +4 dB (at 100 Hz) +4 dB (at 10 kHz)

-30 dB position)

PHONO RIAA : ±0.5 dB

(20 Hz - 20 kHz) deviation

Recording output

Output level/impedance

TAPE REC-1, 2 : 200 mV/1.8 kohms

GENERAL

Power source : Refer to the table on

back page.

Dimensions : 435 (W) x 117 (H) x

345 (D) mm 17-3/16" x 4-5/8" x

13-5/8")

Weight : 9 kg (19.8 lbs)

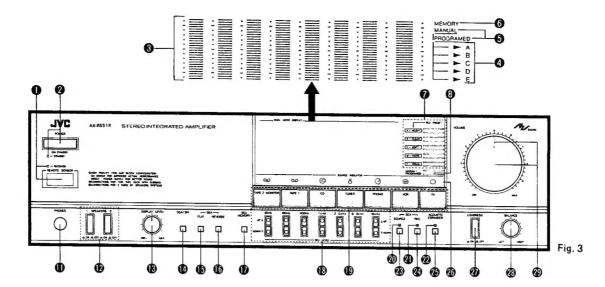
Design and specifications subject to change

without notice.

POWER SPECIFICATIONS

| Areas | Line Voltage & Frequency | Power Consumption | |
|--------------------|--|-------------------|--|
| Continental Europe | AC 220 V √, 50 Hz | 205 watts | |
| U.K. | 400401/2 5011 | | |
| Australia | AC 240 V ∿, 50 Hz | 475 watts | |
| Saudi Arabia | AC 127/220 V √selectable, 50/60 Hz | | |
| Other areas | AC 110/120/240 V √selectable, 50/60 Hz | 220 watts | |

FRONT PANEL



O REMOTE SENSOR

This sensor receives infrared signals from the remote control unit.

RECEIVED indicator

This indicator will go on while infrared signals are being received from the remote control unit.

2 POWER

ON: Press to turn the power on. To turn the power off, press it again

STAND BY: When all of the indicators (other than the STAND BY) are turned off, the memory circuit operates and the preset stations and the source selectors are not subject to cancellation or accidental alteration as long as the power cord is plugged into an AC outlet. This situation is called the STAND BY mode. The preset data and the source select data are maintained even in the case of a power failure or when the power cord is disconnected, provided loss of power does not exceed a couple of days.

STAND BY indicator

Connecting the power plug to the AC wall outlet causes this indicator to light, indicating that the unit has been placed in the stand-by mode. The light of this indicator will go out when the power button is turned on.

Note:

Even when the POWER button is set to STAND BY, this
receiver consumes a small amount of electricity (5
watts), To shut the power off completely, disconnect
the power cord.

SPECTRO PEAK indicator/SEA GRAPHIC EQUALIZER indicator

This display doubles as a SPECTRO PEAK indicator and an SEA GRAPHIC EQUALIZER indicator. It is switched between display by pressing the SPI/SEA button.

SPECTRO PEAK INDICATOR: The output signal is divided into seven frequency bands, whose center frequencies are identical to those of the seven SEA bands. This SPECTRO PEAK INDICATOR shows the output signal level in each frequency band. For easy viewing, the indicator is designed so that its response time is faster when rising and slower when decaying.

SEA GRAPHIC EQUALIZER: The dot point rises and falls in response to the pressing of the corresponding SEA LEVEL buttons to show the SEA level in each frequency band.

Notes:

- The SEA GRAPHIC EQUALIZER level indicator is shown for about five seconds immediately after power is applied.
- When a signal level is displayed by SPECTRO PEAK IN-DICATOR, SEA GRAPHIC EQUALIZER is displayed for 5 seconds by pressing SEA LEVEL, SEA PRESET, SEA FLAT, SEA REVERSE, MANUAL/PROGRAMED or SEA MEMORY button.

SEA PRESET indicator

Pressing the MANUAL/PROGRAMED button will cause indicator A, B, C, D, or E to light, according to which preset pattern was being used the last time the unit was in that particular mode (MANUAL or PROGRAMED). If no preset pattern was being used, no preset pattern indicator will light. These indicators also light when an SEA PRESET button has been pressed, to select a preset pattern or to store a newly-created pattern in memory.

MANUAL/PROGRAMED indicator

Pressing the MANUAL/PROGRAMED button causes "MANUAL" or "PROGRAMED" to light on the display, indicating which mode has been selected.

6 MEMORY indicator

This indicator lights for about five seconds when the MEMORY button is pressed, indicating the unit is ready to accept the pattern you have created for storage in memory.

SEA PRESET

Press to store the displayed S.E.A. pattern in memory or to recall the preset S.E.A. pattern corresponding to the button pressed. While in the MANUAL mode, pressing the SEA MEMORY button and then one of these 5 button will store the patterns you have created. Later, while MANUAL mode, that pattern can be recalled by pressing the appropriate SEA PRESET button. Up to 5 original patterns can be stored for recall in this way.

A different set of S.E.A. patterns is available when in the PROGRAMED mode. These 5 patterns (HEAVY, CLEAR, SOFT, MOVIE and VOCAL) have been permanently stored in memory before the unit was shipped, and may not be replaced. So, up to 10 patterns may be recalled.

MANUAL/PROGRAMED

Press to switch between the MANUAL and PROGRAMED S.E.A. pattern modes.

1 PHONES (Headphone Jack)

Plug stereo headphones into this jack for private listening and record monitoring. If you want to listen to sound from the headphones only, press the SPEAKERS buttons to OFF.

D SPEAKERS

SPEAKERS 1: Press to switch the speakers connected to the SPEAKERS 1 terminals on or off.

SPEAKERS 2: Press to switch the speakers connected to the SPEAKERS 2 terminals on or off.

Note:

 When speakers are connected to only one of the SPEAKERS terminals, press only the SPEAKERS button of the system connected; if both buttons are pressed, sound will not be heard from either speaker system. When two pairs of speakers are connected and either or both SPEAKERS buttons are pressed, sound will be heard from either or both speaker system(s).

(B) DISPLAY LEVEL

Adjusts the relative display position on the SPECTRO PEAK INDICATOR so that weak or strong level signals can be displayed in an easy-to-see position. This control has no effect on the output sound level.

D SPI/SEA

Press to switch the indication between the SPECTRO PEAK INDICATOR and SEA GRAPHIC EQUALIZER level indicator.

SEA FLAT

Press this button for a flat response.

SEA REVERSE

Press this button to reverse the pattern's characteristics.

D SEA MEMORY

Press this button and the MEMORY indicator will light for about five seconds. While it is lit, press one of the SEA PRESET buttons to store in memory the SEA pattern currently being displayed.

B SEA LEVEL

The built-in graphic equalizer divides the audio spectrum into seven frequency bands with center frequencies from 63 Hz to 16 kHz at intervals of 4/3 octave.

When the S.E.A. level is set to "0" (center position), frequency response is flat. The response in each band can be varied up to ± 12 dB by pressing the UP or DOWN SEA LEVEL buttons.

Buttons for different frequency bands can be pressed at the same time, and holding them down causes the level to continue rising or falling.

63 Hz: Raise to emphasize the very low bass response of organs, drums, etc. It produces stable and solid sound with emphasis and eliminates the unclear sound response of low frequencies with de-emphasis.

160 Hz: Emphasize to obtain a more expanded low sound. De-emphasize to eliminate unclear sound caused by large or nearly empty listening rooms.

400 Hz: This frequency range is the basis on which music is constructed. Emphasize to put a punch to your music.

1 kHz: Most effective in emphasizing or de-emphasizing the human voice. Emphasize to cause the vocalist to be brought to the foreground, or de-emphasize to cause it to recede into the background.

2.5 kHz: This frequency stimulates the human ear. If the music sounds hard or metallic, de-emphasize.

6.3 kHz: Boost to add clarity to winds and strings. This frequency band varies the tonal expression, influencing the subtleties of the music.

16 kHz: Boosting this frequency range properly adds to the delicacy of highs, with cymbals and triangles resounding in a more ear-pleasing manner, and provides a feeling of extension. This frequency band can also be used to compensate for cartridge response since most moving-magnet cartridges have their resonance peaks in the frequency range from 10 kHz to 20 kHz.

SOURCE SELECTOR

TAPE 2 MONITOR: Press to listen to a cassette deck connected to the TAPE 2 terminals. Press again, and this button will release this function so that the source selected by another source select button may be heard.

Note

Press this button to monitor the recorded sound (listening to the sound just recorded) when using a three-head tape deck,

TAPE 1: Press to listen to a cassette deck connected to TAPE 1 terminals.

CD: Press this button to listen to a compact disc player connected to the CD terminals

TUNER: Press this button to listen to a radio broadcast. **PHONO:** Press to listen to a turntable connected to the PHONO terminals.

VCR: Press this button to listen to the sound of the VCR connected to the VCR terminals.

TV: Press this button to listen to the sound from the TV connected to the TV terminals.

SEA SOURCE indicator

This indicator lights when the SEA SOURCE button has been pressed to ON.

3 SEA REC indicator

This indicator lights when the SEA REC button has been pressed to ON.

@ ACOUSTIC EXPANDER indicator

This indicator lights when the ACOUSTIC EXPANDER button has been pressed to ON.

SEA SOURCE

Press this button to listen to the S.E.A.-compensated sound.

SEA REC

Press this button to record S.E.A.-compensated signals.

Note:

 S.E.A. recording is possible when the TAPE 1 or VCR terminals are used but is not possible when the TAPE 2 terminals are used.

ACOUSTIC EXPANDER

When this button is pressed, the ACOUSTIC EXPANDER indicator lights and the sound image is expanded; a monaural signal will be given a stereo effect and a stereo signal sounds better.

Notes:

- When a TV or VCR is monaural, use the L and R distributor (mono — L and R) for connecting the left and right terminals.
- ACOUSTIC EXPANDER sound effect cannot be recorded.

® SOURCE indicator

The indicator light corresponding to the source selector button pressed.

D LOUDNESS

Press this button to compensate for the ear's lower sensitivity at low listening levels.

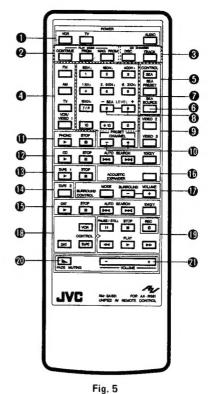
BALANCE

Use to adjust the balance between the left and right speakers. Normally set this control to the center click position.

4 VOLUME and INDICATOR

Controls the volume of the speakers and headphones, and this indicator lights when the POWER button has pressed to on.

REMOTE CONTROL UNIT



•

O POWER

AUDIO: Press this button to switch the AX-R551BK's power on or off.

TV: For use with the TV. Press this button to switch the TV's power on or off.

VCR: For use with the VCR. Press this button to switch the power on or off.

Note:

- Provided one of JVC-specified VCRs or TVs are used, they can be remote-controlled.
- Before operating the television or VCR by remote control, be sure to carefully read the television or VCR instruction manual.

OPLAY MODE

Press this button for changeover to CD AUTO CHANGER. **CONTINUE:** Press this button to listen to the compact discs loaded in the CD magazine in the loaded (numerical) order regardless of the setting for programmed playback.

PRGM: Press this button to listen to the compact discs in programmed order.

MAG.PRGM: Press this button to listen to the compact discs in the order of the program previously stored for each magazine.

OCD CHANGER

These buttons are for use in specifying a disc or track by its number. When so specifying the No. of a particular disc or track, the 10 KEY buttons must be switched over to serve the changer in advance.

DISC: To specify a disc No., press this "DISC" button first and press 10 KEY buttons \bigcirc ($\boxed{1} \sim \boxed{7/P}$) corresponding to the No..

TRACK: To specify a track No., press this "TRACK" button first and press 10 KEY buttons \bigcirc (\bigcirc 10, +10, \bigcirc) corresponding to the No..

Notes:

- For the proper method of using 10 KEY buttons, see page 14.
- To play a compact disc, press button button
- For details on the CD auto changer, consult its instruction book.

O SOURCE CONTROL

FM: Press this button to listen to an FM broadcast.

AM: Press this button to listen to an AM broadcast.

TV: Press this button to listen to the TV connected to the TV terminals.

VCR/VIDEO 1: Press to listen to the VCR connected to the VCR terminals and select the external input "VIDEO 1" on the TV set at the same time.

Notes:

- Where the input to the TV is VIDEO 1 which is connected to the VCR, a black-and-white stripe pattern will appear on the TV screen when the VCR is switched to FF, REW or STOP. The video noise will sometimes affect the system's audio system as audio noise. When switching to another source, switch the TV input to a source other than VIDEO 1.
- Consult instruction book of VCR, VIDEO and TV.

6 CONTROL

SEA: Press this button before adjusting the S.E.A. graphic equalizer using the equalizer control buttons.

SEA PRESET: Press this button to select an S.E.A. preset pattern. Each time this button is pressed, the preset pattern is set to successively change in this order: MANUAL $A-B-C-D-E-PROGRAMED\ A-B-C-D-E$, then returns to the MANUAL A.

6 SEA SOURCE

Press this button to listen to the source with S.E.A. compensation

10 KEY (1 ~ 10,0,+10)

These buttons are for directly accessing the FM/AM preset stations, or various TV channels, also for selecting the CD track No. or the CD changer disc No. and also the 10 KEY operation for selecting the DAT's piece No..

SEA: When the CONTROL SEA button **3** has been pressed, some of these buttons can be used to select the graphic equalizer band to be adjusted.

TV or VCR: When the TV (VCR/VIDEO 1) button has been pressed, these button can be used to select TV channels (TV channels of VCR).

TUNER, CD or DAT: When the 10 KEY button has been pressed, use this button to assign the CH numbers or track numbers (1-10) for a disc which is to be played or programmed. To assign a track number over 10, use a combination of the +10 button and numeric button. (Examples)

- 5: Press numeric button 5
- 10: Press numeric button 10.
- 17: Press the +10 button once and numeric button 7/P.
- 20: Press the +10 button once and numeric button 10. (Possible to press +10, +10 and 0 buttons when the component of tuner has 0 button in addition to +10 button.)
- 25: Press the +10 button twice and numeric button 5.

Notes:

- In the case of some TUNER, CD players or DAT decks, only the 10 KEY may be used to set track numbers. When entering single-digit numbers, press the number, such as 3 and wait for 3 seconds. For double-digit numbers, such as "13", press 1, then 3.
- For details, consult instruction book of TUNER, TV, VCR, CD player and DAT deck.

SEA LEVEL

These two keys are used to adjust the level of the frequency band selected using the SEA graphic equalizer band select keys (see "SEA" above).

O VIDEO 2/VIDEO 3

These buttons correspond to the external INPUT terminals on the TV set labeled VIDEO 2 or VIDEO 3

To watch the video equipment connected to these two pairs of terminals, press one of these two buttons so that the input signal from the TV terminals can be selected easily.

PRESET CHANNEL

FM/AM/TV/VCR: When the FM, AM, TV, or VCR/VIDEO 1 button has been pressed, a preset station or TV channel can be selected by using these buttons to sequentially scan the available stations or channels in either direction.

1 PHONO

PHONO (): Press this button to start playing a record on the turntable.

STOP (): Press this button to stop playing a record.

(CI

CD (►): Press this button to start playing a compact

STOP (): Press this button to stop playing a compact disc.

AUTO SEARCH (]

(Press this button to move the pickup to the beginning of the current tune while it is being played. Then, each time this button is pressed, the pickup will skip to the beginning of the previous tune. Keeping this button pressed causes the pickup to skip back continuously.

(): Press this button to move the pickup to the beginning of the next tune. After this, each time this button is pressed, the pickup moves forward by one tune. Keeping the button pressed causes the pickup to skip forward continuously.

10 KEY (): Press this button to use the numeric buttons **7** for selecting the CD track.

B TAPE 1

TAPE 1 (): Press this button to start playing a tape in the cassette deck.

STOP (): Press this button to stop playing the cassette deck.

TAPE 2

Press this button to listen to the source connected to the TAPE 2 terminals and press it again to disengage.

(D) DAT

DAT (): Press this button to start a digital audio tage

STOP (): Press this button to stop a digital audio tape.

AUTO SEARCH (] , [>)

(Press this button to select the beginning of the previous tune.

(): Press this button to select the beginning of the forward tune.

Note:

• | | and | have the same function.

10 KEY (): Press this button to use the numeric buttons of for selecting the DAT music No..

(b) ACOUSTIC EXPANDER: Press this button to switch the acoustic expander function on or off.

O SURROUND CONTROL

In the case of SURROUND processor (optional) corresponding COMPU LINK of JVC, possible to control the following functions. Connect surround processor (optional) to TAPE 2 terminal.

MODE: Press this button to change the surround mode sequentially in order to select your optimum surround effect

SURROUND VOLUME +: This button is for use in adjusting the output levels of the front and surround speakers in order to enhance the surround effect.

For detail, consult the instruction book for the surround processor.

Note:

 Consult your nearest JVC dealer for the controllable surround processor by this button.

(B) CONTROL

Only for use with COMPU LINK components

VCR: Press this button to operate the VCR connected to the VCR terminals.

TAPE: Press this button to operate the cassette deck connected to TAPE 1 terminals.

DAT: Press this button to operate the DAT deck connected to TAPE 2 terminals.

Notes:

- Press the TAPE 2 button to listen to a DAT.
- How to control JVC COMPU LINK
 - Possible to control only PLAY and STOP in the case of soft logic deck.
 - 2. Possible to control all in the case of full logic deck.

(TAPE or VCR or DAT)

PAUSE/STILL (II): Press this button to pause during
playback or recording. To release this function, press the
PLAY button.

STOP (): Press this button to stop operation.

REC (): Press the PLAY () button while pressing this button for recording.

(): For the cassette deck or DAT deck: Press this button to quickly wind the tape from the right to left reel. For the VCR: Press this button to take the VCR from the stop mode to the rewind mode. During playback, press this button for high-speed playback in the reverse direction (Shuttle search).

PLAY (): Press this button to play a tape.

(): For the cassette deck or DAT deck: Press this button to quickly wind the tape from the left to right reel. For the VCR: Press this button to take the VCR from the stop mode to the fast forward mode. During playback, press this button for high-speed playback in the forward direction (Shuttle search).

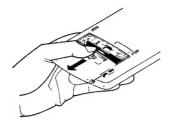
4 FADE MUTING (

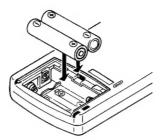
Press this button to lower the volume in steps. The volume in further decreased each time this button is pressed.

Press the + button to increase the volume and the button to decrease it. When these buttons are operated, the VOLUME knob of the amplifier rotates to register the new

volume level and the knob's indicator blinks.

How to install the batteries





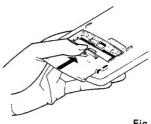


Fig. 7

Batteries

How to install the batteries

- Slide the cover of the battery case in the direction of the arrow to remove it.
- Install the provided batteries ("AA": UM-3, R6, 1.5 V), with their polarities properly placed.
- 3. Re-install the cover of the battery case,

Battery life

The batteries can be used for an average of 1 year.

Battery replacement time

When the distance at which the remote control unit functions begins to decrease, replace both batteries ("AA": UM-3, R6, 1.5 V)

How to operate the remote control unit

When the remote control unit is directly in line with the remote sensor of this unit, the remote control unit may be used from as far away as seven meters. But, when it is being used from a position one side or the other, this distance will be shortened.

OPERATION

Before use

Connect each component correctly, then plug the power cord to an AC wall outlet.

Basic operation

- 1. Press the POWER button to on.
- 2. Select the speaker system with the SPEAKERS buttons.
- Proceed through the steps described below according to your purpose.
- 4. Adjust the volume and balance you require.
- 5. Use the SEA buttons to obtain the tone you wish to hear. **Listening to broadcasts**
- Press the TUNER button so that the TUNER indicator lights.
- 2. Operate the tuner as described in its operation manual. Listening to records
- Press the PHONO button so that the PHONO indicator lights
- 2. Operate the turntable as described in its operation manual.

Notes:

- Use a turntable with an MM cartridge.
- If your turntable has a separate ground lead, connect it to the GND terminal.

Listening to compact discs

- 1. Press the CD button so that the CD indicator lights.
- 2. Operate the CD player as described in its operation manual.

Listening to tapes

- Press the TAPE 1 or TAPE 2 MONITOR button so that the TAPE 1 or TAPE 2 MONITOR indicator lights.
- Operate the cassette deck for playback as described in its operation manual.

Watching and listening to TV

- 1. Press the TV button so that the TV indicator lights.
- 2. Operate the TV as described in its operation manual.

Watching and listening to a VCR

- 1. Press the VCR button.
- Operate the VCR for playback as described in its operation manual.

Recording tapes

- Recording from records -

- 1. Press the PHONO button so that the PHONO indicator lights.
- 2. Operate the turntable.
- 3. Operate the cassette deck for recording.

Note

 The sound you hear from the speakers or headphones is the source sound, not the recording on the tape.

- Recording from other sources (CD, TUNER, VCR, TV) -

Press the button corresponding to the source to be recorded. All other operations are identical to those when recording from records.

Tape dubbing

To dub tapes, connect two tape decks. One for playback and the other for recording. You can dub from the tape deck (connected to the TAPE 2 terminals) onto the tape deck (connected to the TAPE 1 REC terminals) and vice versa.

- Dubbing from Tape 1 to Tape 2 -

- Activate the TAPE 1 button and the TAPE 1 indicator lights.
- Operate the tape deck (connected to the TAPE 1 PLAY terminals) for playback.
- Operate the tape deck (connected to the TAPE 2 terminals) for recording.

Dubbing from Tape 2 to Tape 1 --

- Activate the TAPE 2 MONITOR button and the TAPE 2 MONITOR indicator lights.
- Operate the tape deck (connected to the TAPE 2 terminals) for playback.
- Operate the tape deck (connected to the TAPE 1 REC terminals) for recording.

Notes:

- When dubbing from the tape deck (connected to TAPE 2 terminals) onto the other tape deck, select the SOURCE SELECTOR button other than "TAPE 1".
- While playing back a tape on the tape deck (connected to TAPE 2 terminals), you can not record another source onto the component (connected to TAPE 1 REC terminals).
- When recording or dubbing tapes, the source sound will be heard from the speakers or headphones. (Not the sound being recorded on the tape.)
- The S.E.A. recording is not applicable to the tape deck (connected to the TAPE 2 terminals).

How to operate the monitor while recording on the tape deck

- 1. Connect the 3-head tape deck to the TAPE 2 terminals.
- Make sure to connect the signal cords to the PLAY and REC terminals, and remove the remote cable connected to the tape deck.
- Select a source from which you want to record by depressing the SOURCE selector button on this unit.
- Operate the tape deck for recording as described in its operation manual.
- By playing the source component, you can record on the tape deck,
- While recording on the tape deck, the recorded sound can be heard by depressing the TAPE 2 MONITOR button on this unit or that of the remote control unit.

Using stereo headphones

Stereo headphones can be plugged into the front panel jack. The signal from this jack is independent of the speakers.

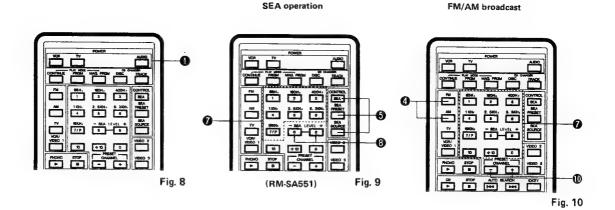
- 1. Plug stereo headphones into this jack for private listening.
- To listen through headphones while listening to the speakers, press the appropriate SPEAKERS button to ON ().

HOW TO USE THE REMOTE CONTROL UNIT

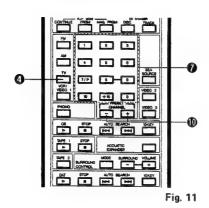
- The "COMPU LINK" component system is composed of the following: tuner, CD player, cassette deck, record player and DAT deck, all using COMPU LINK 1/SYNCHRO terminals for connection.
- Each "COMPU LINK" component can be put in operation by merely operating the button on the remote control unit: it is not necessary to press the source selector button on the amplifier.
- Example: A component is playing when you set the target component in playback by pressing the PLAY button (of the remote control unit): as you press the PLAY button, the other component will automatically stop playing.

Notes

- When the DAT deck is playing, it will not stop playing even if other components are started. And vice versa, if a component other than the DAT deck is playing and the DAT is then started the component that was playing will not stop.
- If the component already in playback happens to be device not covered by "COMPULINK", it will keep on playing back in the above case. To stop that non-COMPULINK device (which may be a VCR, video deck, TV or sound processor), press its STOP button.
- The remote control unit works best when it is held level and aimed straight at the remote sensor of the amplifier. If the signal emitted by the control unit is received by two or more components, The recipients may hesitate to start up. In this case, keep pressing the button until all of the target components start. If the target components are wide apart, they may not be able to receive the emitted signal simultaneously, so that some of them may remain still. In such case, re-aim the control unit to the remote sensor of each still component and press the button.
- The remote control unit has no memory capability. Thus, programming by using memory, if desired, must be effected at the component, which may be a tuner, CD player or DAT player.



FM/AM broadcast or TV



Turning ON and OFF of power supply (Fig. 8)

- POWER AUDIO: Press this button to turn ON the amplifier, and press it again to turn it OFF.
- POWER VCR: Press this button to turn ON the VCR, and press it again to turn it OFF.
- POWER TV: Press this button to turn ON the TV, and press it again to turn it OFF.

SEA operation (Fig. 9)

- CONTROL SEA Pressing this button sets these buttons automatically in SEA mode: 10 KEY, 63 Hz ~ 16 kHz 17/P and SEA LEVEL 8 ~ 9.
- 7P: Press the button for the band, whose level you want to change.
- 3. 3 8 ~ 9. Pressing button 8 lowers the level of the selected band; pressing button 9 raises its level.

To listen to radio broadcast, FM or AM (Fig. 10)

1. 4 FM or AM: Pressing this button (FM or AM) sets these buttons in FM or AM mode, 10 KEY: 1 ~ 10, +10, 0.

Note:

- The amplifier source selector automatically switches over to "TUNER" and the tuner will indicate "FM" or "AM".
- 2. 7 1 ~ 10, +10, 0: Of the preset channels, programmed in the tuner, check the number of the channel of your choice, and press the button corresponding to that channel number. Examples:

Channels 1 ~ 10:

For Channel 5, press numeric button 5
For Channel 10, press numeric button 10

Channel 17: Press +10 button once and then numeric button 7/P.

Channel 20: Press $\boxed{+10}$ button once and then numeric button $\boxed{10}$.

Channel 25: Press $\boxed{+10}$ button twice and then numeric button $\boxed{5}$.

 PRESET CHANNEL — +: These buttons are for incrementing or decrementing the number. That is, selecting the next channel above or below the currently selected channel.

To listen to TV broadcast (Fig. 11)

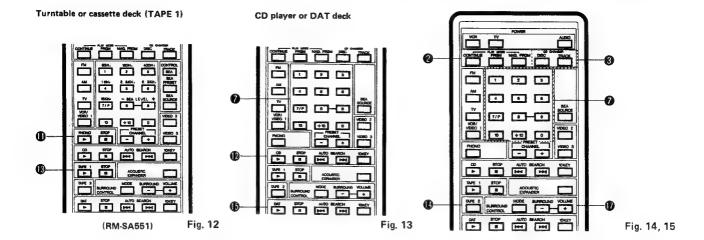
Turn power ON in each component involved.

- TV: Pressing this button switches the source selector automatically to TV. (TARGET → AMPLIFIER)

 - **③** \overrightarrow{TV} : TV goes into TV mode by pressing this button. (TARGET → TV)

Notes:

- For remote control or VCR and TV, refer to page 28.
- These buttons automatically shift to TV mode: 10 MEY, 10 PRESET CHANNEL : 1.
- 1 ~ 9, 0 (When you select VCR or TV on the remote control): Press the button for the desired TV channel.
- PRESET CHANNEL +: For shifting the channel selection upward or downward. Each push of the button selects the channel immediately next to the current channel.



To play phono or cassette deck (Fig. 12)

- PHONO or TAPE 1 . Pressing the button switches the source selector automatically to "PHONO" or "TAPE 1", depending on the button you press, and playback starts.
- To or STOP : Pressing this button stops the phono or cassette deck,

To play CD or DAT (Fig. 13)

or \bigcirc 10 KEY \bigcirc . To select a track by number on the CD or a program by the number on the DAT deck, press this button first and then press the \bigcirc 10 KEY \bigcirc 10, \bigcirc 10, 0 buttons for the selected number.

CD D or B DAT : Pressing this button commences play back.

Note:

- To listen to music with a DAT deck connected to TAPE
 2 terminal, press
 TAPE 2 button first and press
 DAT
- Or STOP : Press this button to stop the performance.
- AUTO SEARCH (Pressing this button interrupts the selection being played and returns to the start of that selection

AUTO SEARCH (): Pressing this button interrupts the music and brings the CD or tape to the start of the next selection.

Note:

 Press once to advance to the next selection. For fast forward, keep pressing this button.

CD AUTO CHANGER operation (Fig. 14)

OPLAY MODE

CONTINUE: Pressing this button plays the discs in the magazine sequentially, starting with Disc 1, regardless of the program.

PRGM: Press this button to play the discs in programmed sequence.

MAG. PRGM: Set your magazine in place and press this button: the discs will be played back in the sequence programmed in the magazine.

Function of MAG. PRGM isn't operated in the case of some CD players then consult instruction book of CD auto changer.

OCD CHANGER

Pressing DISK or TRACK button assigns **7** 10 KEY for use in CD changing.

DISC + 10 KEY: Press this kay to specify ■ disc by its number in the magazine. In the case, press 3 DISC button before operating 10 key function.

TRACK + 7 10 KEY: Press this key to specify a track by its number in the magazine. In the case, press 3 TRACK button before operating 10 key function.

Notes:

- To understand 10 KEY operation, refer to page 14.
- For detail, consult the instruction book of the CD auto changer.

SURROUND CONTROL (Fig. 15)

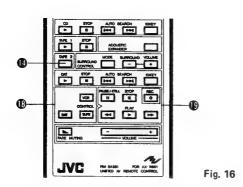
This control is for the surround processor (optional) connected to TAPE 2 terminal. For surround control, press TAPE 2 button **19** first and then the following:

- MODE: Press this button to shift the surround processor's selector from its current mode to another.
- **SURROUND VOLUME** +: For raising or lowering the output levels of the front and surround speakers, in order to enhance the surround effect. Pressing button lowers and pressing + button raises the volume.

Note:

 For detail, consult the instruction book of the surround processor.

CONTROL TAPE 1 or DAT



Control the COMPULINK cassette deck and "DAT deck" without changing the "SOURCE SELECTOR" of the amplifier. See the Note**. (Fig. 16)

- 1. (B) CONTROL TAPE or DAT: Pressing TAPE button or DAT button makes the control button (B) serve the cassette deck or the DAT deck, respectively.
- PLAY : Pressing this button starts the cassette or DAT deck for play back.
- STOP : Pressing this button stops the cassette or DAT deck to interrupt the playback.
- PAUSE/STILL Pressing this button pauses the cassette or DAT deck in play back operation.
 - PLAY : Pressing this button resumes the recording operation that has been interrupted by pause.
- 5. Pressing this button sets the tape in rapid winding into the left cassette reel.
 - (9) : Pressing this button sets the tape in rapid winding into the right cassette reel.

Motor

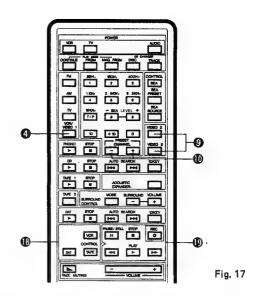
- * By operating the remote control unit, you can select the "TAPE 2" of the amplifier. But the cassette recorder (named "TAPE 2") will not start playing. To play the TAPE 2, press its PLAY button.
- ** To play the DAT deck, connect it to the TAPE 2 terminals of the amplifier. Press the
 TAPE 2 button,

 DAT and operate the button
 .

Note:

• In the case of cassette deck, some aren't activated.

VCR



Video cassette recorder playback (Fig. 17)

- VCR/VIDEO 1 : Pressing this button switches the source selector over automatically to VCR.

Notes:

- When the VCR is set to the fast forward, rewind or stop mode, selecting the VIDEO signals from the TV LINE OUT terminals (for VIDEO) may cause black and white stripes on TV screen.
- Consult instruction book of the corresponding components.
- 3. **(9)** PLAY ► (TARGET → VCR): Pressing this button sets the VCR in playback operation.

Notes:

- In this case, the on-going play is not stopped. If you wish to stop, take the action required.
- It takes a few seconds for a pictures to appear on TV
- 4. **(b)** STOP **(c)** (TARGET → VCR): For stopping VCR. 5. **(d)** PRESET CHANNEL **(e) (†)** (TARGET → VCR):

How to control the VCR without making any selection with the amplifier's source selector (Fig. 17)

- CONTROL VCR: Pressing this button makes the control button serve the VCR.
- PLAY ► (TARGET → VCR): Pressing this button starts the VCR in playback.

Notes:

- In this case, the on-going play is not stopped. If you wish to stop it, take the action required.
- When selecting the component connected to the "TAPE 2" terminals, press the TAPE 2 button.
 - If a cassette deck is connected to these terminals, since tape playback cannot be started with the remote control button, press the PLAY button of the cassette deck.
- When playing a DAT deck, connect it to the "TAPE 2" terminals, and connect the remote cable.
 - To start, press the TAPE 2 button then press the DAT CONTROL button.
- When connecting the cassette deck to the TAPE 2 terminal, do not connect the remote cable.
- STOP (TARGET → VCR): For stopping the VCR.
- PAUSE/STILL III (TARGET → VCR): Pressing this button while the VCR is in playback switches its mode to STILL.
 - PLAY ► (TARGET → VCR): -Pressing this button resumes the recording operation that has been interrupted by pause.
- TARGET → VCR): Press this button to rewind the tape,
 - (TARGET → VCR): Press this button to set the tape in rapid forward motion. When the tape is in the PLAY mode, these two buttons can be used for selecting the "SHUTTLE SEARCH".
 - REC + PLAY ► (TARGET → VCR): To start recording, press ► button while keeping button pressed.

Switch the audio and video signals from the video equipment (connected to the TV set). (Fig. 17)

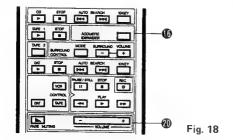
- VIDEO 2 . or VIDEO 3 : The "SOUND SELECT" of the Amplifier selects the "TV"
- VIDEO 2) or VIDEO 3 (TARGET → TV): The "INPUT SELECT" of the TV set selects the "VIDEO 2" or "VIDEO 3".

ACOUSTIC EXPANDER effects (Fig. 18)

- ACOUSTIC EXPANDER: Press this button to engage ACOUSTIC EXPANDER effects. Pressing this button again, the ACOUSTIC EXPANDER effects are by-passed. Move volume up or down (Fig. 18)
- **VOLUME** +: The sound volume is increased or decreased gradually.

Mute the sound (Fig.18)

© FADE MUTING : The volume is further decreased each time this button is pressed.





COMPU LINK REMOTE CONTROL SYSTEM

The COMPULINK REMOTE CONTROL SYSTEM was developed by JVC. You can control each COMPULINK component from the remote control unit, and also perform the following advanced operations with ease.

Automatic source selection

If the attached remote cable is used to connect this unit to other JVC components with COMPULINK-1/SYNCHRO terminals, sources can be switched with just one touch of the unit's source selector buttons and the corresponding component will start to play automatically. The source select button of the remote control unit or the appropriate component's activation button may also be used.

When switching from one component to another, such as a cassette deck, turntable or CD player, the previous component will stop playing after about five seconds.

Synchronized recording

Synchronized recording refers to the process whereby a cassette deck automatically commences recording, in synchronization with the CD player or turntable.

Set the cassette deck to the REC/PAUSE mode according to the procedures in the instruction manual.

When synchronously recording the CD player, push the PLAY button on the CD player.

The cassette deck enters the record mode the moment the CD player starts and synchronized recording commences.

Synchronized recording stops automatically when the CD player stops playing.

To cancel synchronized recording, push the STOP button of the CD player, turntable or cassette deck.

Notes:

- When the REC/PAUSE mode is set to PAUSE after depressing the REC and PLAY buttons simultaneously, synchronized recording is not possible. For details, refer to your cassette deck's instruction manual.
- Abnormal operation will result if the power supply of one of the components is interrupted during synchronized recording. If this happens, push the activation button again to restart.
- Ensure that the COMPULINK-1/SYNCHRO terminal of each component is connected with the attached remote cable. Be sure to read the instruction manual for each component very carefully.
- The source is locked to CD or PHONO position during synchronized recording to avoid accidental stops or changing to another source. To change the source, first cancel synchronized recording.

CAUTION:

- When a component (such as a cassette deck) is connected to the TAPE 2 terminals of the amplifier, do not connect the SYNCHRO terminals of such component to any other component with a remote cable.
- Connect the remote cable of a DAT to the COMPU LINK-1/SYNCHRO terminals of this unit.

OPERATION OF THE S.E.A. GRAPHIC EQUALIZER

Compensation for room acoustics

The frequency response of the listening area varies depending on the room's shape, furnishings, and the position of the listener in the room. Each listening position in the room provides the listener with a different set of frequency responses, as a result of different degrees of reverberation, reflection, echo, and absorption affecting each frequency.

The S.E.A. system can function to make the sound response of a room flat by emphasizing those frequencies having a high degree of absorption and de-emphasizing those frequencies having a high degree of reflection.

The frequency range affected by "absorption" and "reflection" are narrow; therefore, it is only necessary to compensate the corresponding frequency band. Since conventional tone control systems simply adjust the highs and lows centered around the frequency off 1 kHz, they are both imprecise and incomplete. The AX-R551BK monitors and equalizes seven separate audio frequency bands, thus allowing you to make the necessary adjustments in the precisely appropriate frequency bands in order to compensate for the acoustic response of a room and any listening position in it.

Operation

S.E.A. pattern memory

For your own sound compensation and processing, you can use the 10 PROGRAMED and MANUAL preset S.E.A. patterns.

PROGRAMED

These five S.E.A. patterns were preset at the factory to offer suggested settings for various types of audio programs. Each preset pattern is shown below. After recalling these patterns, you can further change each frequency band to suit yourself. However, since they are representative patterns, the original, stored pattern will be unchanged.

HEAVY (PROGRAMED A) Fig. 22

Used for music with a heavy beat, such as rock music. Low frequencies are emphasized to produce a deeper, more powerful sound. Higher frequencies are also emphasized to enhance and bring clarity to the highs, including the percussive notes.

CLEAR (PROGRAMED B) Fig. 23

For crisp, clear sound with transparent highs. The low and middle frequencies that tend to be unclear are de-emphasized, and the middle and high frequencies that strengthen the vocal component of the music are emphasized.

SOFT (PROGRAMED C) Fig. 24

For background music. The very low frequencies, which need boosting at low volume levels, are emphasized, and the stimulating effect of higher frequencies is diminished by de-emphasizing high frequencies.

MOVIE (PROGRAMED D) Fig. 25

For TV, VCR, and video disc sound. The low and high frequencies, which are usually of insufficient strength in the sound of these sources, are emphasized to produce a balanced, deeper sound. Also, the excessive brightness that is characteristic of these sources, sound is cut back by de-emphasizing the middle frequency band.

VOCAL (PROGRAMED E) Fig. 26

For music that is chiefly vocal, or speech. The middle frequencies, which carry the human voice, are emphasized, while surrounding frequencies are reduced. To accent the higher vocal notes, the highest frequencies are also boosted.

MANUAL

These five S.E.A. pattern memories are provided to allow you to create, store, and recall up to five S.E.A. patterns.

To store the S.E.A. pattern in memory, proceed as follows:

- Set the S.E.A. pattern using the SEA LEVEL UP/DOWN buttons. This will cause the MANUAL indicator to light, if it has not been lit already.
- 2. Press the MEMORY button. The MEMORY indicator will light for five seconds.
- During this period, press the appropriate SEA PRESET button to store the pattern in memory. The SEA PRESET indicator corresponding to the button just pressed will light, the MANUAL indicator will re-light, and the MEMORY indicator will go off.

S.E.A. recording

The S.E.A. graphic equalizer tailors the sound to your own particular taste and compensates for room acoustics or system characteristics, as described on page 33. The AX-R551BK is equipped with an SEA REC button which makes it possible to record with the added effect of the S.E.A.

Operation

- 1. Set the S.E.A. pattern as required.
- 2. Press the SEA REC button.
- 3. Proceed in the same way as in normal recording.

Notes:

- When you turn the VOLUME control on the amplifier or press the VOLUME buttons on the remote control unit during S.E.A. recording, the recording level will not be affected.
- S.E.A. recording is possible when using the TAPE 1 or VCR terminals, but not when using the TAPE 2 terminals.





Fig. 23







Fig. 24

Fig. 25

Fig. 26

Removal Procedures

Removing the Top Cover

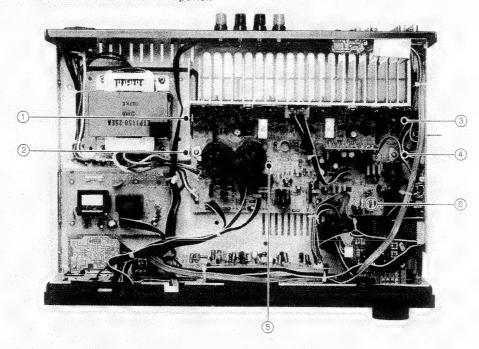
- 1. Remove six screws.
- 2. Remove the top cover by lifting up its rear section and pulling it backward while holding it on incline.

■ Removing the Front Panel

- 1. Remove the top cover.
- 2. Remove three plastic rivets on the upper part of the front panel and three screws from the lower part.
- 3. Pull out the volume knob and remove the front panel.

Removing the Power Transistors

- 1. Remove the top cover.
- 2. Remove screws 1 6.
- Remove PC board retaining fastener 6 located under R809.
- 4. Raise the power amplifier PCB so that the pattern side faces up.
- 5. Unsolder the power transistors.
- Remove the screws holding the power transistors using a wrench having a diagonal length of 5.5 mm.

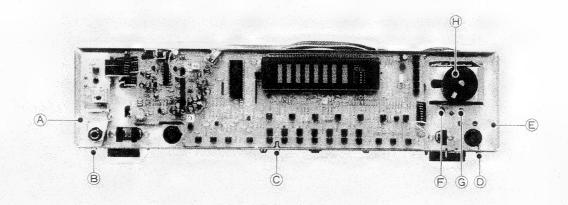


Remove the Motor Volume PC Board

- 1. Remove the front panel.
- 2. Remove screws (a) \sim (E), and pull out the front bracket.
- 3. Turn the holder counterclockwise securely, and re-

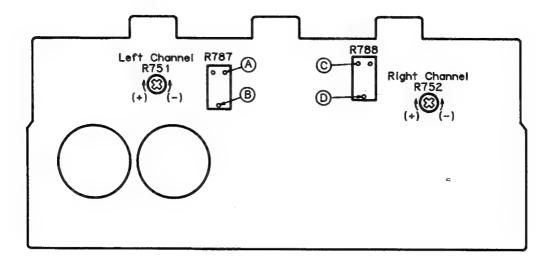
move it.

4. Remove the volume retaining nut and screws (F), (§) and remove the motor volume PC Board while pushing it inside of the set.



Adjustment Procedures

■ Power Amplifier Idling Adjustment



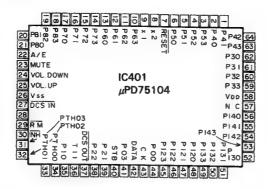
- Before tuning on the power, turn the semi-fixed resistors (R751 for L channel and R752 for R channel) of the power amplifier circuit board fully counterclockwise.
- Adjust the semi-fixed resistors R751 (for L channel) and R752 (for R channel) so that the voltage between test points (a) and (b) of R787 (L channel) and between test point (c) and (d) of R788 (R channel) becomes

5 mV, about 10 minutes after the power is turned on. Confirm that the voltage does not vary when the heatsink temperature increases further.

Note: Be sure to perform the measurement with the probes and cabinet of the measuring equipment separated from the grounding terminals of AX-R551XBK or other measuring equipment.

Explanation of LSI

- \blacksquare μ PD75104G525-1B (IC401): System Controller
- (1) External Diagram



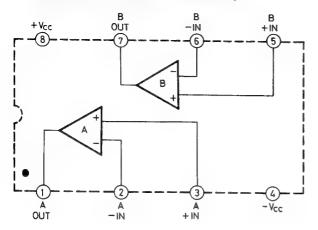
(2) Pin Functions

| Pin No. | Symbol | 1/0 | Terminal Function |
|---------|----------|-----|-------------------|
| 1 | P41 | 0 | VCR (LED) |
| 2 | P40 | 0 | TAPE 1 (LED) |
| 3 | P53 | 0 | CD (LED) |
| 4 | P52 | 0 | TV (LED) |
| 5 | P51 | 0 | TUNER (LED) |
| 6 | _P50_ | 0 | PHONO (LED) |
| 7 | RESET | - | |
| 8 | X2 | - | |
| 9 | X1. | _ | |
| 10 | P63 | 0 | KEY OUT |
| 11 | P62 | 0 | KEY OUT |
| 12 | P61 | 0 | KEY OUT |
| 13 | P60 | 0 | KEY OUT |
| 14 | P73 | - | |
| 15 | P72 | - | |
| 16 | P71 | - | |
| 17 | P70 | - | |
| 18 | P83 | 0 | AC relay ON/OFF |
| 19 | P82 | - | |
| 20 | P81 | 0 | |
| 21 | P80 | 0 | |
| 22 | P93 | 0 | A/E |
| 23 | P92 | 0 | MUTE |
| 24 | P91 | 0 | VOL DOWN |
| 25 | P90 | 0 | VOL UP |
| 26 | Vss | - | |
| 27 | P13/INT3 | ı | DCS IN |
| 28 | P12/INT2 | - | |
| 29 | P11/INT1 | | RMIN |
| 30 | PIO/INTO | 1 | INH |
| 31 | PTH03 | - | |
| 32 | PTH02 | _ | |

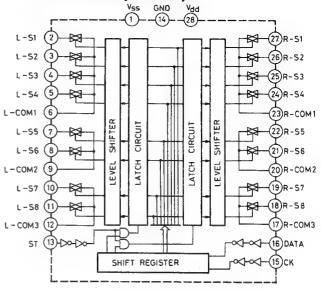
| Pin No. | Symbol | 1/0 | Terminal Function |
|---------|----------|-----|-------------------|
| 33 | PTH01 | - | |
| 34 | PTH00 | _ | |
| 35 | T10 | _ | |
| 36 | T11 | - | |
| 37 | P23 | 0 | DCS OUT |
| 38 | P22 | _ | |
| 39 | P21 | - | |
| 40 | P20/PT00 | 0 | STB |
| 41 | P03/S1 | _ | |
| 42 | P02/S0 | 0 | SI TC9164 |
| 43 | P01/SCK | 0 | CK TC9162 |
| 44 | POO/INT4 | _ | |
| 45 | P123 | | KEYIN |
| 46 | P122 | 1 | KEY IN |
| 47 | P121 | 1 | KEY IN |
| 48 | P120 | 1 | KEYIN |
| 49 | P133 | 1 | KEY IN |
| 50 | P132 | 1 | KEY IN |
| 51 | P131 | 1 | KEY IN |
| 52 | P130 | - 1 | KEY IN |
| 53 | P143 | 1 | TEST (active H) |
| 54 | P142 | 1 | CS3 (preparation) |
| 55 | P141 | 1 | CS2 (relay) |
| 56 | P140 | 1 | CSI (4/3 RS) |
| 57 | NC | - | |
| 58 | Vdd | - | |
| 59 | P33 | 0 | RM IND (LED) |
| 60 | P32 | 0 | VOL IND (LED) |
| 61 | P31 | 0 | A/E IND (LED) |
| 62 | P30 | 0 | TAPE 2 (LED) |
| 63 | P43 | 0 | SEA SOURCE (LED) |
| 64 | P42 | 0 | SEA REC (LED) |

Internal Block Diagrams of ICs

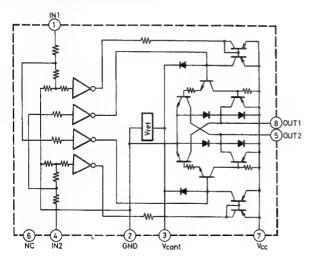
■ NJM4558DD (IC301, IC503) M5218P (IC531, IC582)



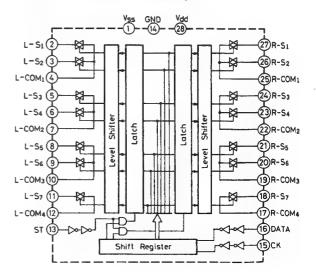
■ TC9164N (IC361)



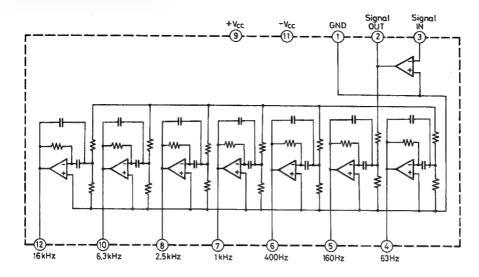
■ LB1639 (IC351)



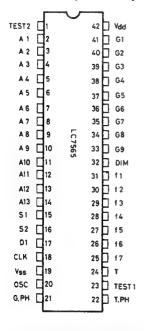
■ TC9162N (IC362)

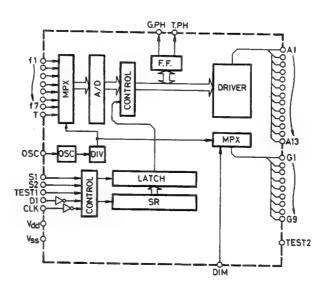


■ 7EL-SPI-001 (IC442)

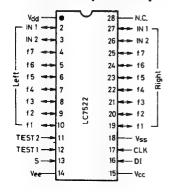


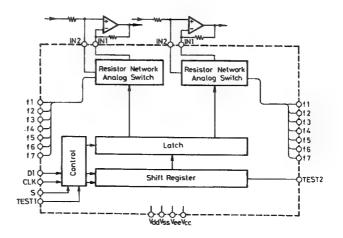
■ LC7565 (IC443)





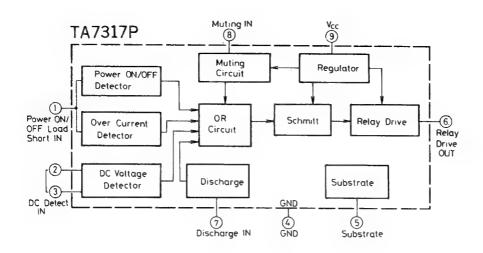
■ LC7522 (IC504)



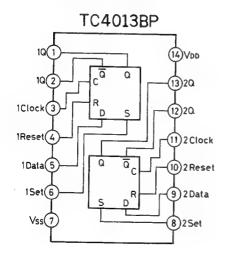


1-20 (No. 20113)

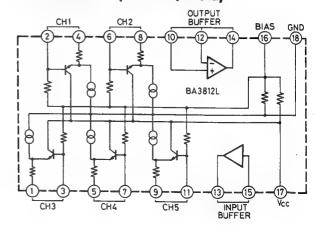
■ TA7317P (IC901)



■ TC4013BP (IC441)



■ BA3812L (IC501, 502)

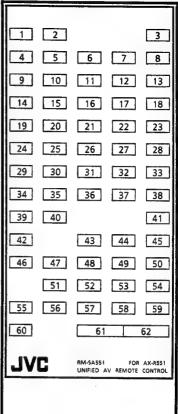


Remote Control Unit (RM-SA551)

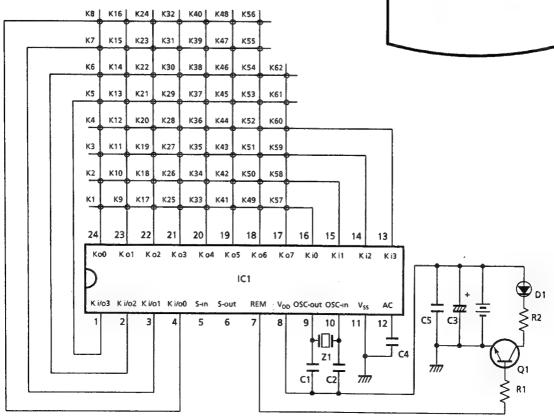
■ Parts List

| Symbol | Part Number | Description |
|--------|---------------|-------------------|
| IC1 | μPD6125AG-551 | |
| Q1 | 2SC3265(O,Y) | |
| D1 | SE303A-Y | 1 |
| C1,C2 | NSC21HJ-101 | 100pF |
| C3 | QETB1CM-106 | 10μ F,16 V |
| C4,C5 | NCB21HK-104 | 0.1μF |
| R1 | NRVA82D-270 | 27Ω,1/8W |
| R2 | NRVA42D-1R0 | 1.0Ω,1/4W |
| Z1 | ECBS455EB20 | 455kHz |

■ Key Layout



■ Schematic Diagram



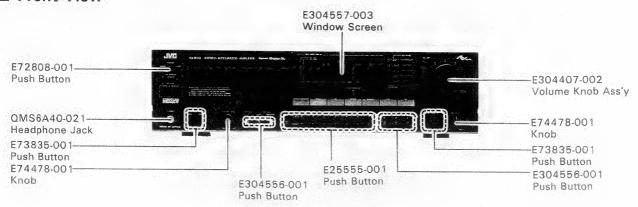
PARTS LIST

Contents

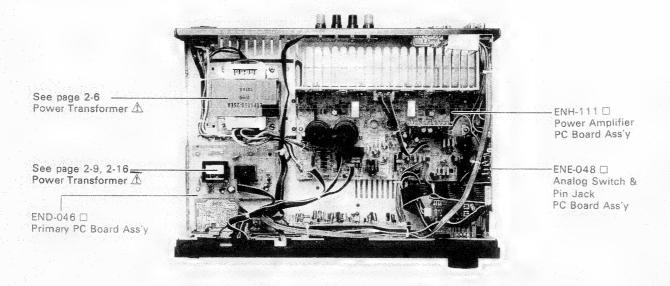
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| ■ENE-048 □ Analog Switch & Pin Jack PC Board Ass'y | |
| ■ENB-065 □ Logic & Tact Switch PC Board Ass'y | |
| ■ ENG-004 ☐ Pre-Drive PC Board Ass'y | |
| ■END-046 ☐ Primary PC Board Ass'y | 2-17 |
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| Packing Materials and Part Numbers | |

Main Parts Locations

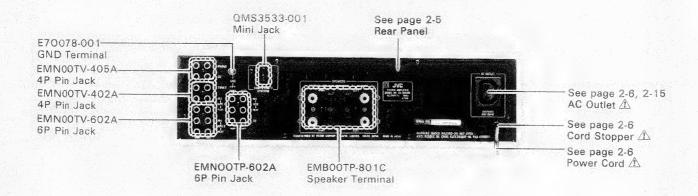
Front View



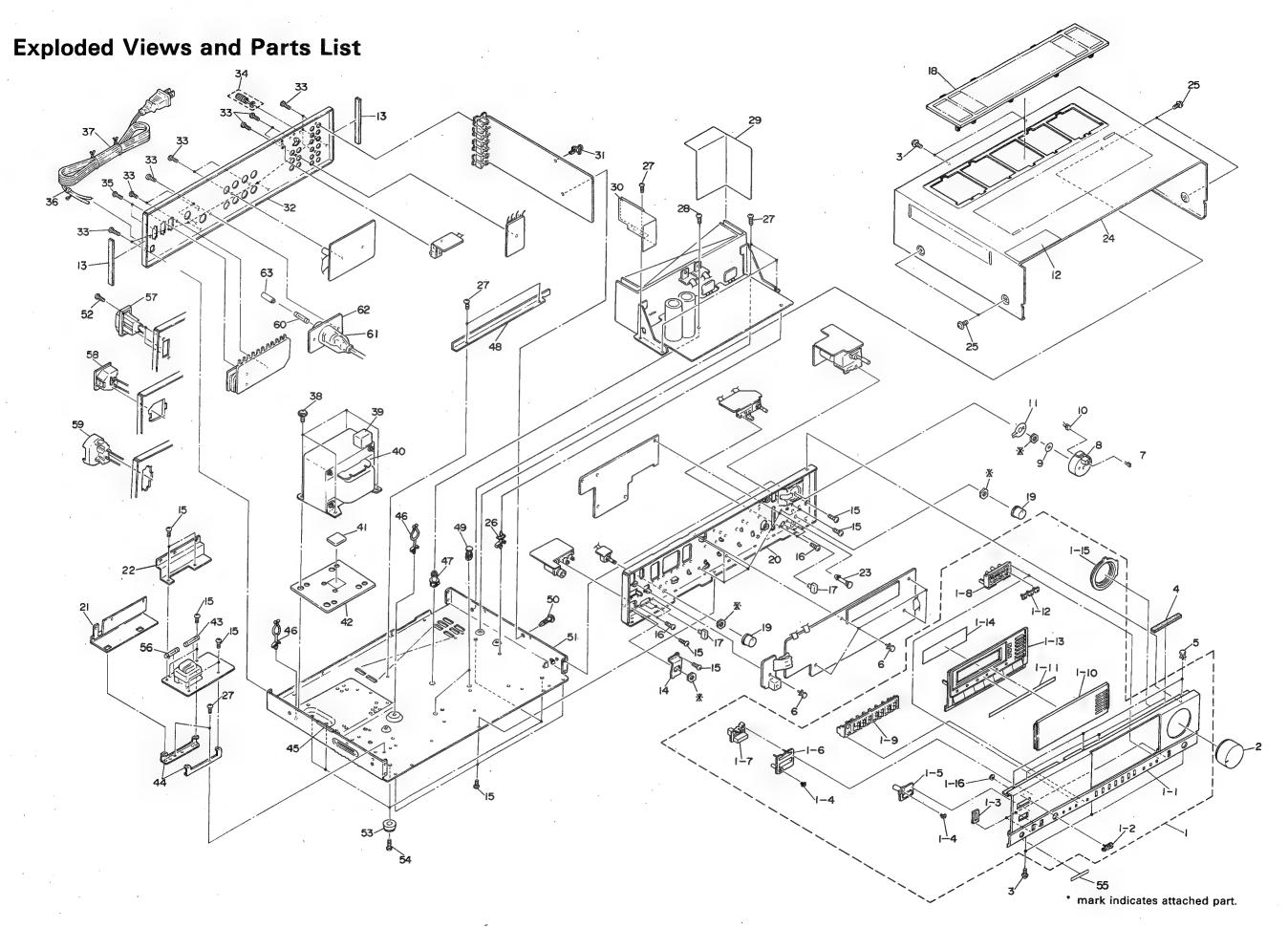
Top View



Rear View



⚠: Safety Parts



 \triangle

Item

Part Number

| Δ | Item | Part Number | Part Name | Q'ty | Description | Areas |
|---|------------------------------------|--|--|------------------------|--|----------------------------------|
| | 1 1-1 1-2 | EFP-AXR551XBKE EFP-AXR551XBKU E25552-005 E25552-004 E72968-001 | Front Panel Ass'y Front Panel Ass'y Front Panel Front Panel JVC Mark | 1 1 1 1 1 1 | | Except U U Except U U |
| | 1-3 1-4 1-5 1-6 1-7 | E73836-002 E73522-001 E73509-001 E304591-001 E72808-001 | Push Button Escutcheon Indicator Screen Push Button Escutcheon Push Button | 3 2 1 1 | | |
| | 1-8 1-9 1-10 1-11 1-12 | E304556-001 E25555-001 E304557-003 E72437-008 E73832-001 | Push Button Push Button Window Screen Sheet Indicator | 2 1 1 1 1 1 1 | | |
| | 1-13 1-14 1-15 1-16 2 | E25587-003 E70561-018 E73513-001 E60912-003 E304407-002 | FL Escutcheon Ass'y FL Screen Volume Knob Escutcheon Speed Nut Volume Knob Ass'y | 1 1 1 1 1 1 1 | | |
| | 3 4 5 6 7 | SBSE3008M EXO060007N40S E48729-009 E48729-008 SLT-25VR52F | Screw Spacer Plastic Rivet Plastic Rivet LED | 5 3 3 5 | A Company of the Comp | |
| | 10 | E304320-002 E74070-001 EWS142-004 E73905-001 E67000-005 | Holder Spacer Socket Wire Ass'y Sheet Caution Label | 1 1 1 1 1 1 | | |
| | 14 15 16 | EXO085010R10S E73218-001 SBSB3008N SBST3006CC E73835-001 | Spacer Headphone Bracket Screw Screw Push Button | 2 1 12 4 3 | | |
| | 19 20 21 | E23862-005 E74478-001 E11425-001 E74781-001 E74782-001 | Grill Knob Front Bracket Protect Cover Protect Cover | 1 2 1 1 | * . | E,BS,UE |
| | 24 25 | E303216-004 E24742-005 E24719-012 E61660-004 E300167-001 | Fastener Metal Cover Metal Cover Special Screw Fastener | 4 1 1 4 1 | | E,B\$,UE A,G,U |
| | 28 29 30 | SBST3006Z GBSB3008CC E304758-001 E304787-002 E69384-002 | Screw Screw Protect Sheet Protect Cover Fastener | 8 1 1 1 | | |
| | | E25549-027 E25549-028 E25549-029 E25549-030 E25549-031 | Rear Panel Rear Panel Rear Panel Rear Pnael Rear Panel | 1 1 1 1 1 | | U UE E A G |
| | 33 | E25549-032 E73273-001 E73273-001 E73273-001 | Rear Panel Special Screw Special Screw Special Screw | 1 12 14 16 | | BS Except E,U,UE E U,UE |

| | I | | i . | | | |
|----------------------|----------------------------|---|--|-----------------------|--------------|---------------------------------------|
| Ą | 35 36 | SDSB3008M QHS3876-162 | Screw Cord Stopper | 2 | | U,UE Except BS |
| <u>∧</u> <u>∧</u> | 37 | QHS3876-162BS QMP7600-200 QMP7520-200 | Cord Stopper Power Cord Power Cord | 1 1 1 | | BS U UE |
| <u>∧</u> | 38 | QMP3900-200 QMP2560-244 QMP9017-008BS E65389-002 E65389-005 | Power Cord Power Cord Power Cord Special Screw Special Screw | 1 1 1 4 4 | | E,G A BS U,UE Except U,UE |
| ^ | 39 40 | E3400-375 ETP1200-21FA ETP1150-25UA ETP1150-25EA ETP1150-25EABS | Spacer Power Transformer Power Transformer Power Transformer Power Transformer | 1 1 1 1 | | U UE E,A,G BS |
| <u>^</u> | 41 42 43 | EXO045045R20S10 E73603-003 QMF51A2-3R15S QMF51E2-3R15SBS E69902-003 | Spacer Spacer Fuse Fuse Circuit Board Holder | 1 1 1 1 2 | F001 F001 | A,E,G,BS A,E,G,BS E,A,G BS |
| | 45 46 47 48 | E65778-002 E303704-001 E303704-002 E49946-002 E303585-001 | Spacer Wire Clamp Wire Clamp Circuit Board Holder Bracket | 1 1 1 1 1 | | U,UE Except U,UE |
| | 49 50 51 52 53 | E49383-002 E303216-001 E10653-013 SBSB3016M E47227-011 | Fastener Fastener Chassis Base Screw Foot | 2 1 1 2 5 | | E,G |
| <u>^</u> | 54 55 56 57 | SBSB3008Z E49267-001 QMF51A2-R10S QMF51A2-R10SBS QMC0240-002 | Screw Origin Marking Label Fuse Fuse AC Socket | 5 1 1 1 2 | F002 F002 | BS E,A,G BS E,G |
| | 58 59 60 | EMC0232-001BS EMC0233-001 QMF51A2-1R25S QMF51A2-3R15S QMF51A2-2R5S | AC Outlet AC Outlet Fuse Fuse Fuse | 1 1 1 1 | F001 F001 | BS A E U UE |
| | 61 62 63 | E69291-001 E71073-002 QMG0301-003 | Fuse Cover Bracket Fuse Holder | 1 1 1 | | |

Q'ty

Description

Areas

Part Name

The Marks for Designated Areas

······Australia UE-----Saudi Arabia U-----Other Countries ·····Europe ·····West Germany No mark indicater all areas. BS-----the U.K.

△ Safety Parts

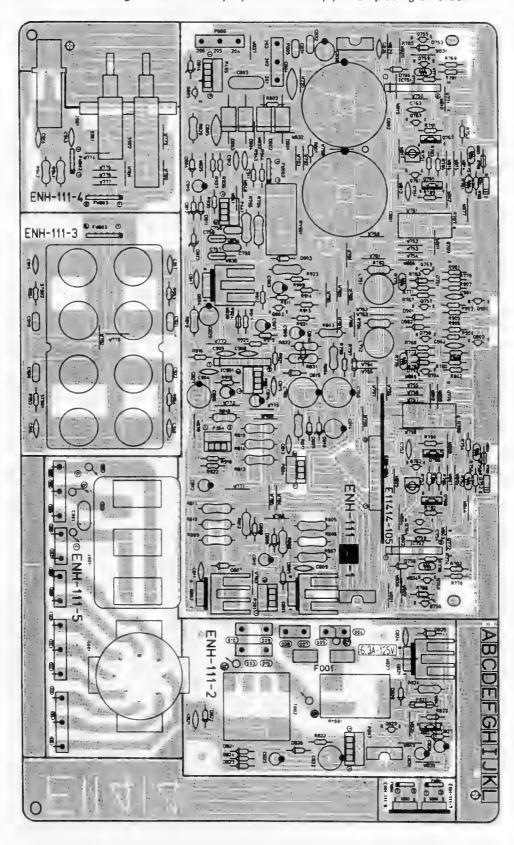
(No. 20113) 2-5

2-6 (No. 20113)

Printed Circuit Board Ass'y and Parts List

■ ENH-111 □ Power Amplifier PC Board Ass'y

Note: ENH-111 \square varies according to the areas employed. See note (1) when placing an order.



Note (1)

| R Board Ass'y | Designated Areas |
|---------------|-----------------------------|
| ENH-111 B | Other Countries |
| ENH-111 D | the U.K., Europe, Australia |
| ENH-111 E | West Germany |
| ENH-111 G | Saudi Arabia |

| - | nsist | | | | |
|-------|--------------|----------------------------------|--------------------|--------------------------|----------|
| Δ | ITEM | PART NUMBER | DESCR | IPTION | ARE |
| | | | | MAKER | 1 |
| | Q751 | 2SD636(Q,R) | SILICON | MATCHCHITA | |
| i | Q752 | | SILICON | MATSUSHITA Matsushita | |
| i | Q753 | | | ROHM | D |
| | Q753 | | | ROHM | E |
| | Q753 | | SILICON | ROHM | G |
| | Q754 | 25C174OLN(R,S) | SILICON | ROHM | D |
| | Q754 Q754 | | | ROHM | E |
| | Q755 | | SILICON SILICON | ROHM ROHM | G |
| | Q755 | | SILICON | ROHM | E |
| | Q755 | 2SA933LN(R,S) | SILICON | ROHM | Ğ |
| | Q756 | | | ROHM | D |
| | Q756 | | | ROHM | E |
| 1 | Q756 Q757 | | | ROHM | G |
| ••••• | Q757 | 2SC1740LN(R,S) 2SC1740LN(R,S) | SILICON SILICON | ROHM ROHM | B D |
| | Q757 | | | ROHM | É |
| | Q757 | | | ROHM | G |
| | Q758 | | SILICON | ROHM | В |
| | Q758 | | SILICON | ROHM | <u>D</u> |
| | Q758 Q758 | | SILICON SILICON | ROHM ROHM | E |
| | Q759 | | | ROHM | G |
| | Q759 | | | ROHM | В |
| | Q759 | 2SA933LN(R,S) | SILICON | ROHM | D |
| | Q759 | | | ROHM | D E |
| 1 | Q760 | | | ROHM | G |
| | Q760 Q760 | | | ROHM ROHM | B |
| | Q760 | | SILICON | ROHM | E |
| •••• | Q761 | 2SC2389(S) | | ROHM | |
| | Q762 | | SILICON | ROHM | |
| | Q763 | | | ROHM | İ |
| | Q764 Q765 | 2SA1038(S) 2SC2235(D,Y) | | ROHM | |
| •••• | Q765 | ************************** | SILICON SILICON | TOSHIBA Toshiba | E |
| | Q765 | | | TOSHIBA | G |
| | Q765 | 25D669A(B,C) | | HITACHI | В |
| | 9766 | | | TOSHIBA | D |
| | Q766 Q766 | | SILICON | TOSHIBA | E |
| | Q766 | 2SC2235(0,Y) 2SD669A(B,C) | SILICON SILICON | TOSHIBA HITACHI | G 8 |
| 1 | 9767 | | SILICON | TOSHIBA | ů |
| 1 | 9767 | | SILICON | TOSHIBA | ĺε |
| | 9767 | 2SA965(0,Y) | SILICON | TOSHIBA | G |
| | Q767 | 25B649A(B,C) | SILICON | HITACHI, | В |
| | Q768 Q768 | | SILICON | TOSHIBA | D |
| | Q768 | | SILICON SILICON | TOSHIBA Toshiba | E G |
| | Q768 | | SILICON | BITACHI. | В |
| | Q769 | 2SC3181NLB(0,R) | SILICON | TOSHIBA | D |
| | Q769 | | SILICON | TOSHIBA | E |
| | Q769 | | SILICON | TOSHIBA | G |
| | Q770 | | SILICON | TOSHIBA | B D |
| | Q770 | | SILICON | TOSHIBA | E |
| | Q770 | 2SC3181NLB(0,R) | | TOSHIBA | G |
| | Q770 | | SILICON | | В |
| | Q771 | | | TOSHIBA | D |
| | Q771 | | SILICON SILICON | TOSHIBA Toshiba | E G |
| | Q771 | | SILICON | OSUTON | B |
| | Q772 | | SILICON | TOSHIBA | Ö |
| | 9772 | 2SA1264NLB(0/R) | SILICON | TOSHIBA | E |
| | Q772 | ZSA1264NLB(O,R) | SILICON | TOSHIBA | G |
| | Q772 | | SILICON | | В |
| | Q801 Q802 | | | SANYO Sanyo | |
| | Q803 | | | SANYO | |
| | Q804 | | SILICON | SANYO | 1 |

Transistors

| Æ | ITEM | PART NUMBER | DESCR | | AREA |
|---|-------------|--------------|---------|------------|------|
| | | | | MAKER | |
| | Q805 | | SILICON | MATSUSHITA | 1 |
| | Q806 | 2SD1666(R,S) | SILICON | SANYO | 1 1 |
| | Q821 | 2SD1265A(0) | SILICON | MATSUSHITA | В |
| | Q821 | 2SD1265A(0) | SILICON | MATSUSHITA | G |
| | Q822 | 2SC2235(0,Y) | SILICON | TOSHIBA | В |
| | Q822 | 2SC2235(0,Y) | SILICON | TOSHIBA | G |
| | 9823 | DTC114YN | SILICON | ROHM | В |
| | Q823 | DTC114YN | SILICON | ROHM | G |
| | 9901 | 2SC2389(S,E) | SILICON | ROHM | 1 I |
| | 9902 | 2SC2389(S,E) | SILICON | ROHM | 1 1 |
| | Q903 | 2SA1038(S,E) | SILICON | ROHM | |
| | | | | | 1 |
| | | | 1 | | |
| | | | 1 | | |
| | | | | | |

I.C.s

| A | тем | PART NUMBER | DESCR | IPTION | AREA |
|---|--------|-------------|-------|---------|------|
| | | | | MAKER | |
| | 10751 | VC5022-2 | I.C. | SANYO | D |
| | IC751 | VC5022-2 | I.C. | SANYO | E |
| | IC751 | VC5022-2 | I.C. | SANYO | G |
| | I C752 | VC5022-2 | I.C. | SANYO | D |
| | | VC5022-2 | I.C. | SANYO | E |
| | | VC5022-2 | 1.C. | SANYO | G |
| | IC901 | TA7317P | I.C. | TOSHIBA | |
| | | | | | i . |
| | | | | | |
| | 1 1 | | | 1 | 1 |

Diodes

| A ITI | ЕМ | PART | NUN | BER | D | E S | C | R | I P | | ои | ARE |
|-------|-----|--------------------|---------|---|-----|-----|----|-------|--------------|-------|--------|------------|
| | 1 | | | | _ | | | | M A | K | ER | |
| | | 182473 | | | | ICC | | | ROHM | | | В |
| | | 182473 | | | | ICC | | | ROHM | | | В |
| | | 182473 | | | | ICC | | | ROHM | | | В |
| | | 1\$2473 1\$2473 | | | | ICC | | | ROHM | | | В |
| D7 | | 152473 | ••••• | | | ICC | | | ROHM | | | D |
| | | 152473 | | | | 100 | | | ROHM | | | E |
| | | 152473 | | | | ICC | | | ROHM ROHM | | | G |
| 1 - | | 152473 | | | | ICC | | | ROHM | | | E |
| | | 152473 | | | | 100 | | | ROHM | | | G |
| B8 | | 30DF2S | FĈ | • | | ICC | | | NIHO | NIN | TER | |
| | | 30DF2S | | | | ICC | | | NIHO | | | |
| | | 30DF2S | | | | ICC | | | NIHO | | | |
| | | 30DF2S | | | SIL | | | | NIHO | | | |
| D8 | 05 | 192473 | | | | ICC | | | ROHM | | | |
| D8 | 06 | RD16EB | 3 | | ZEN | | | ***** | NEC | | | |
| 80 | | 1\$2473 | | | SIL | ICC | N | | ROHM | | | |
| | | RD5.6E | В3 | | ZEN | ER | | | NEC | | | |
| D8 | | 152473 | | | SIL | ICO | N | | ROHM | | | |
| | | RD16EB | 3 | | ZEN | | | | NEC | | | |
| | | 152473 | _ | | | ICC | N | | ROHM | | | |
| | | RD15EB | | | ZEN | | | | NEC | | | |
| | | RD15EB | | | ZEN | | | | NEC | | | 1 |
| | | RD6.8E | 83 | | ZEN | | | | NEC | | | |
| | | 152473 | | | | ICC | N | | ROHM | | | |
| | | RD5.6E | 5.5 | | ZEN | | | | NEC | | | |
| 08 | | 11E2 11E2 | | | SIL | | | | NIHO | | | 8 |
| D8 | | 11E2 11E2 | | | SIL | | | | NIHO | | | G |
| 08 | | 11E2 11E2 | | | | ICC | | | NIHO | | | В |
| D8 | | 11E2 | ******* | | | 100 | | | NIHO | | | <u>. G</u> |
| D8 | | 11E2 | | | SIL | | | | NIHO | | | B |
| D8 | | 11E2 | | | SIL | | | | NIRO | | | В |
| D8 | | 11E2 | | | SIL | | | | NIHO | | | G |
| D8 | | RD12EB | 3 | | ZEN | | •• | | NEC | n I H | 1 12 K | В |
| D8 | | RD12EB | | | ZEN | | | | NEC | ••••• | | G |
| 08 | | 152473 | | | SIL | | N | | ROHM | | | В |
| 80 | 26 | 182473 | | | SIL | | | | ROHM | | | G |
| 08 | | RD6.2E1 | | | ZEN | | | | NEC | | | В |
| D8 | | RD6.2E1 | 33 | | ZEN | ER | | | NEC | | | G |
| D8 | | 152473 | | | SIL | ICO | N | | ROHM | | | В |
| | | 182473 | | | SIL | | | | ROHM | | | G |
| 09 | | 152473 | | | SIL | | | | ROHM | | | |
| D9 | | 152473 | | | SIL | | | | ROHM | | | |
| D9 | | 152473 | | | SIL | | | | ROHM | | | |
| D9 | 140 | 182473 | | | SIL | ICO | N | | ROHM | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | SAFE | | | тs |

Capacitors

| | | | | ES | | • • | 101 | NAREA |
|-----|--------------|------------------------------|-------------|-------------|------------|------|----------|--------|
| - 1 | C001 | QCZ9019-472 QCZ9019-472 | | OPF | | CERA | | В |
| - 1 | C751 | QCS22HJ-470A | | OPF | 500V | CERA | | G B |
| | C751 | QCS22HJ-470A | | | 500V | CERA | | D |
| | C751 | QCS22HJ-470A | 47P | | 500V | CERA | MIC | G |
| | C751 | QCS22HJ-680A | 68P | | 500V | CERA | | E |
| ļ | C752 | QCS22HJ-470A | | | 500V | CERA | | В |
| į | C752 | QCS22HJ-470A QCS22HJ-470A | | | 500V | CERA | | D G |
| | C752 | QCS22HJ-680A | | | 500V | CERA | | E |
| | C753 | QCS22HJ-470A | | ******** | 500V | CERA | | В |
| ĺ | C753 | QCS22HJ-470A | | | 500V | CERA | MIC | D |
| | C753 | QCS22HJ-470A | | | 500V | CERA | | G |
| } | C753 | QCS22HJ-680A | ł. | | 500V | CERA | | E |
| | C754 | QCS22HJ-470A QCS22HJ-470A | | ********* | 500V | CERA | | B D |
| | C754 | QCS22HJ-470A | | | 500V | CERA | | G |
| - } | C754 | QCS22HJ-680A | | F | 500V | CERA | MIC | E |
| | C755 | QFN81HK-473 | | 47MF | SOV | MYLA | | |
| | C756 | QFN81HK-473 | | 47MF | 50V | MYLA | | |
| | C757 | QFN81HK-473 QFN81HK-473 | | 47MF | 50V | MYLA | | |
| | C759 | QETB1JM-107 | 100 | 47MF | 50V 63V | MYLA | | 0 |
| | C759 | QETB1JM-107 | 100 | | 63V | ELEC | | E |
|] | C759 | QETB2AM-107 | 100 | | 100V | ELEC | | 8 |
| | C759 | QETB2AM-107 | 100 | | 100V | ELEC | | G |
| | C760 | QETB1JM-107 | 100 | | 63V | ELEC | | D |
| | C760 | QETB1JM-107 QETB2AM-107 | 100 | | 63V | ELEC | | E |
| | C760 | QETB2AM-107 | 100 | | 100V | ELEC | | B |
| | C801 | EEW7101-129E | | OOMF | 710 | ELEC | | В |
| - { | C801 | EEZ7101-109 | | OOMF | 71V | ELEC | | D |
| - | C801 | EEZ7101-109 | | OOMF | 71V | ELEC | | E |
| | C801 | EEZ7101-109 | | OOMF | 717 | ELEC | | G |
| | C802 | EEW7101-129E EEZ7101-109 | *********** | OOMF | 71V 71V | ELEC | ******** | В |
| | C802 | EEZ7101-109 | | OOMF | 710 | ELEC | | DE |
| - [| C802 | EEZ7101-109 | | OOMF | 71V | ELEC | - | Ğ |
| | C803 | QFH42EK-104 | 0.1 | | 2500 | M.MY | LAR | |
| | C806 | QCF21HP-223 | | 22MF | 50V | CERA | MIC | E |
| | C809 | QCF21HP-472 | | OPF | 50V | CERA | MIC | |
| | C810 C811 | QETB1EM-227 QCF21HP-472 | 220 | MF | 25V 50V | CERA | | |
| | C812 | QETB1CM-107 | 100 | | 167 | ELEC | | |
| | C813 | QCF21HP-472 | | OPF | 50V | CERA | MIC | |
| | C814 | QETB1EM-227 | 220 | | 25V | ELEC | TRO | **** |
| | C815 | QFM82AJ-472 | | OPF | 100V | MYLA | | |
| | C816 | QETB1CM-476 | 47M | | 16V | ELEC | | |
| ļ | C821 | QCF21HP-472 QFM82AK-473 | | OPF 47MF | 50V | CERA | | В |
| | C821 | QFM82AK-473 | | 47MF | 100V | MYLA | R | |
| | C822 | QET81JM-227 | 220 | | 63V | ELEC | | B |
| | C822 | QETB1JM-227 | 220 | | 63V | ELEC | TRO | G |
| | C823 | QETB1HM-105 | 1MF | | 50V | ELEC | | В |
| _ | C823 | QETB1HM-105 QCF21HP-472 | 1 M F | OPF | 50V | CERA | | G B |
| | C824 | QCF21HP-472 | | OPF | 500 | CERA | | G |
| j | C826 | QETB1CM-476 | 4.7M | F | 160 | ELEC | | B |
| | C826 | QETB1CM~476 | 47M | F | 16V | ELEC | TRO | G |
| | C827 | QETBOJM-10B | 100 | OMF | 6.3V | ELEC | TRO | |
| | C828 | QETB1AM-107 QETB1AM-107 | 100 | | 100 | ELEC | | В |
| | C828 | QETBIAM-107 | 100 | | 10V 50V | ELEC | | G |
| | C831 | QFN42AK-103 | 1 | 1MF | 1000 | MYLA | | 1 |
| | C832 | QFN42AK-103 | | 1MF | 100V | MYLA | \R | |
| | C901 | QCF21HP-223 | | 22MF | 50V | CERA | MIC | |
| | C902 | QCF21HP-223 | | 22MF | 50V | CERA | AMIC | |
| | C903 | QETB1EM-226 | 221 | | 257 | ELEC | | |
| | C904 | QCF21HP~223 QCY21HK-102 | | 22MF OPF | 50V 50V | CERA | MIC | |
| | C906 | QETB1AM-476 | 47M | F | 100 | ELEC | TRO | |
| | C907 | QETB2AM-474 | 0.4 | 7MF | 100V | ELEC | | |
| | C908 | QFN81HK-153 | 0.0 | 15MF | 50V | MYLA | AR . | |
| | C909 | QETB1CM-226 | 22M | | 16V | ELEC | | |
| | C910 | QETB1HM-105 | 1MF | | 500 | ELE(| | |
| | C913 | QCS21HJ-331 QCS21HJ-331 | 330 330 | | 50V 50V | CERA | | E |
| | C919 | QFN81HK-103 | | 1MF | 500 | MYLA | | Ē |
| | C920 | QFN81HK-103 | | 1MF | 50V | MYL | A R | Ē |
| | C921 | QFN81HK-103 | 0.0 | 1MF | 50V | MYL | AR . | E |
| | C922 | QFN81HK-103 | 0.0 | 1MF | 50V | MYLA | AR | E |
| | 6726 | | | | | | | 1 |

Resistors

| | SISTO | 3 | | | | | |
|---|--------------|--------------------------------|------------|--------------|----------------|-------|--------|
| Δ | ITEM | PART NUMBER | DESC | R I | PT 1 | O N | AREA |
| | R751 | QVPC604-471 | 470 | 0.3W | VARIA | | |
| | R752 R753 | QVPC604-471 QRD148J-101S | 470 100 | | VARIA CARBO | | |
| } | R753 | QRD148J-1015 | 100 | 1/4W | CARBO | | D E |
| | R753 | QRD148J-101S | 100 | 1/4W | CARBO | N | Ğ |
| | R753 | QRD148J-1528 | 1.5K | 1/4W | CARBO | | В |
| | R754 | QRD148J-101S QRD148J-101S | 100 100 | | CARBO | | D E |
| | R754 | QRD148J-101S | 100 | 1/4W | CARBO | | Ğ |
| | R754 | QRD148J-152S | 1.5K | 1/4W | CARBO | | В |
| | R755 | QRD148J-391S QRD148J-391S | 390 390 | 1/4W | CARBO | | |
| | R757 | ERT-D2WFL351S | 350 | | CARBO | | D |
| } | R757 | ERT-D2WFL351S | 350 | 1/4W | THERM | | |
| | R757 | ERT-D2WFL351S | 350 | 1/4W | THERM | | |
| | R758 | ERT-D2WFL351S ERT-D2WFL351S | 350 350 | 1/4W 1/4W | THERM | | |
| | R758 | ERT-D2WFL351S | 350 | 1/4W | THERM | | |
| | R759 | QRD148J-4715 | 470 | 1/4W | CARBO | | D |
| | R759 | QRD148J-471S QRD148J-471S | 470 470 | 1/4W | CARBO | | Ē. |
| | R760 | QRD148J-471S | 470 | 1/4W | CARBO | | D |
| | R760 | QRD148J-471S | 470 | 1/4W | CARBO | N | E |
| | R760 | QRD148J-471S | 470 | 1/4W | CARBO | | G |
| | R761 R761 | SDT250 SDT250 | | | THERM | | |
| | R761 | SDT250 | | | THERM | | |
| | R762 | SDT250 | | | THERM | | |
| | R762 R762 | SDT250 SDT250 | | | THERM | | |
| | R763 | QRD148J-102S | 1 K | 1/4W | CARBO | | G D |
| | R763 | QRD148J-102S | 1K | 1/4W | CARBO | | E |
| | R763 | QRD148J-102S | 1K | 1/4W | CARBO | | G |
| | R764 | QRD148J-102S | 1K | 1/4W | CARBO | | D. |
| | R764 | QRD148J-102S QRD148J-102S | 1K 1K | 1/4W | CARBO | | G |
| | R765 | QRD148J-102S | 1 K | 1/4W | CARBO | | D |
| | R765 | QRD148J-102S | 1K | 1/4W | CARBO | | E |
| | R765 R766 | QRD148J-102S QRD148J-102S | 1K 1K | 1/4W | CARBO CARBO | | G D |
| | R766 | QRD148J-1025 | iK | 1/4W | CARBO | | E |
| | R766 | QRD148J-102S | 1K | 1/4W | CARBO | | G |
| | R767 | QRD148J-101S QRD148J-101S | 100 | 1/4W | CARBO | | D |
| | R767 | QRD148J-1015 | 100 | 1/4W 1/4W | CARBO | | E |
| | R767 | QRD148J-1515 | 150 | 1/4W | CARBO | | В |
| 1 | R768 | QRD148J-101S QRD148J-101S | 100 | | CARBO | | D |
| | R768 | QRD148J-1015 | 100 | | CARBO | | E |
| | R768 | QRD148J-151S | 150 | 1/4W | CARBO | N | В |
| | R769 | QRD148J-1018 | 100 | 1/4W | CARBO | | D |
| | R769 | QRD148J-101S QRD148J-101S | 100 100 | | CARBO | | E G |
| | R769 | QRD148J-151S | 150 | | CARBO | | В |
| | R770 | QRD148J-101S | 100 | | CARBO | | D |
| | R770 | | | | CARBO Carbo | | E |
| | R770 | | | | CARBO | | B |
| | R771 | QRD148J-131S | 130 | 1/4W | CARBO | N | D |
| | R771 | | | | CARBO | | . E |
| | R772 | | | | CARBO Carbo | | G D |
| | R772 | QRD148J-1318 | 130 | 1/4W | CARBO | N | E |
| | R772 | | 130 | 1/4W | CARBO | | G |
| | R773 | QRD148J-131S QRD148J-131S | | 1/4W | CARBO CARBO | | D E |
| | R773 | QRD148J-131S | | | CARBO | | G |
| | R774 | | 130 | 1/4W | CARBO | N | 0 |
| | R774 | | | | CARBO | | E |
| | R775 | | | 1/4W 1/4W | CARBO Therm | | G |
| | R775 | ERT-D2WFL351S | 350 | 1/4W | THERM | ISTOR | Ē |
| | R775 | | | | THERM | | |
| | R776 | | | | THERM | | |
| | R776 | ERT-D2WFL351S | 350 | 1/4W | THERM | | |
| | R777 | | 350 | 1/4W | THERM | ISTOR | D |
| | R777 | | | 1/4W 1/4W | THERM THERM | | |
| | R778 | | | | THERM | | |
| l | R778 | ERT-D2WFL351S | 350 | 1/4W | THERM | | E |
| | R778 | | | | THERM | | |
| | R779 | | | | CARBO CARBO | | D E |
| | R779 | | | | CARBO | | Ğ |
| | | | Δ | | AFETY | | RTS |

Resistors

| Δ | ІТЕМ | PART NUMBER | DESC | RI | PTION | AREA |
|----------|--------------|--------------------------------|--------------|--------------|----------------------------------|--------|
| | R779 | QRD148J-331S | 330 | 1/4W | CARBON | В |
| | R780 | | 120 | 1/4W | CARBON | D |
| | R780 | QRD148J-121S | 120 | 1/4W | CARBON | E |
| i | R780 | | 120 | 1/4W | CARBON | Ğ |
| | R780 | QRD148J-331S | 330 | 1/48 | CARBON | В |
| | R781 | QRD148J-121S | 120 | 1/4W | CARBON | D |
| | R781 | | 120 | 1/4W | CARBON | E |
| | R781 | QRD148J-1215 QRD148J-3315 | 120 330 | 1/4W | CARBON | G |
| Ì | R782 | | 120 | 1/4W | CARBON CARBON | B D |
| | R782 | QRD148J-121S | 120 | 1/4W | CARBON | E |
| | R782 | QRD148J-121S | 120 | 1/4W | CARBON | G |
| | R782 | | 330 | 1/4W | CARBON | В |
| Δ | R783 | | 2.7K | 1/4W | UNF.CARBON | |
| .♠ | R784 | QRD145J-2725 | 2.7K | 1/4W | UNF.CARBON | |
| Δ | R786 | QRD145J-271S QRD145J-271S | 270 | 1/4W | UNF. CARBON | |
| Δ | R787 | | 270 0.22 | 1/4W 3W | UNF.CARBON CEMENT | |
| Δ | R788 | | 0.22 | 3W | CEMENT | |
| Δ | | QRD145J-100S | 10 | 1/4W | UNF.CARBON | 1 |
| Δ | R790 | | 10 | 1/4W | UNF. CARBON | |
| ▲ | R791 | QRD145J~100S | 10 | | UNF. CARBON | |
| Δ | R792 | | 10 | 1/4W | UNF.CARBON | |
| Δ | R793 | | 33 | 1/2W | UNF. CARBON | |
| Δ | R793 | | 33 | 1/2W | UNF. CARBON | |
| Δ | R793 | | 33 | 1/2W | UNF. CARBON | |
| Δ | R794 | | 47 33 | 1/2W 1/2W | UNF.CARBON UNF.CARBON | |
| Δ. | R794 | | 33 | 1/2W | UNF.CARBON | |
| Δ | R794 | | 33 | 1/2W | UNF. CARBON | |
| Δ | R794 | QRD125J-470 | 47 | 1/2W | UNF. CARBON | |
| Δ | R795 | QRG022J-100A | 10 | 2 W | D.M.FILM | |
| Δ | R796 | | 10 | 2 W | O.M.FILM | |
| Δ | R797 | | 33 | 1/4W | UNF.CARBON | |
| .♠ | R798 | | 33 | 1/4W | UNF.CARBON | |
| | R801 R802 | | 33K 33K | 1/48 | CARBON CARBON | |
| Δ | R803 | | 4.7 | 1/4W 1/2W | UNF. CARBON | |
| Δ | R804 | | 22 | 1/2W | UNF. CARBON | |
| ▲ | R805 | | 1.5K | 2W | O.M.FILM | |
| ₾ | R806 | QRG022J-152A | 1.5K | 2 W | O.M.FILM | |
| Δ | R807 | | 1.5K | 2 W | O.M.FILM | |
| Δ | R808 | | 8.2K | 1/2W | UNF.CARBON | _ |
| Δ | R809 R809 | | 2.2K | 2W | O.M.FILM | D |
| .♣ | R809 | QRG022J-222A QRG022J-222A | 2.2K 2.2K | 2W | O.M.FILM O.M.FILM | E |
| Ā | R809 | | 560 | 2W | O.M.FILM | В |
| Δ | R810 | QRG022J-222A | 2.2K | 2 W | O.M.FILM | D |
| Δ | R810 | | 2.2K | 2W | D.M.FILM | Ε |
| Α | R810 | | 2.2K | 2 W | O.M.FILM | G |
| Δ | R810 | QRG022J-561A | 560 | 2₩ | O.M.FILM | В |
| A | R811 R811 | QRG022J-222A QRG022J-222A | 2.2K | 2₩ | O.M.FILM | D |
| A | R811 | QRG022J-222A | 2.2K 2.2K | 2W 2W | O.M.FILM | E |
| Ā | R811 | | 560 | 2 W | O.M.FILM O.M.FILM | G B |
| Δ | R812 | QRD125J-123 | 12K | 1/2W | UNF.CARBON | |
| Δ | R813 | | 1.2K | 2 W | O.M.FILM | D |
| Δ | R813 | QRG022J-122A | 1.2K | 2 W | O.M.FILM | E |
| Δ | R813 | QRG022J-122A | 1.2K | 2W | O.M.FILM | G |
| .♠ | R813 | QRG022J-152A | 1.5K 1.2K | 2W 2W | O.M.FILM | . В |
| A | R814 | QRG022J-122A | 1.2K | 12 W | O.M.FILM | D |
| Δ. | R814 | QRG022J-122A QRG022J-122A | 1.2K 1.2K | 2W 2W | O.M.FILM O.M.FILM | E |
| Δ | R814 | QRG022J-152A | 1.5K | 2 W | O.M.FILM | G B |
| Α. | .R815 | QRG022J-122A | | Σw | D.M. FILM | |
| Δ | R815 | QRG022J-122A | 1.2K 1.2K | 2W 2W | O.M.FILM O.M.FILM O.M.FILM | D E |
| Δ | R815 | | 1.2K | 2W | | Ğ |
| Δ | R815 | | 1.5K | 2 W | O.M.FILM | В |
| Δ. | R817 | QRD125J-822 | 8.2K | | UNF.CARBON | |
| Δ | R818 | QRD125J-820 QRD125J-562 | 82 5.6K | 1/2W | UNF.CARBON | |
| A | R820 | QRD125J-470 | 47 | 1/2W 1/2W | UNF.CARBON | |
| Δ | R821 | | 47 3.3 | | UNF.CARBON UNF.CARBON | В |
| Δ | R821 | | 3.3 | | UNF.CARBON | G |
| | R822 | QRD148J-472S | 4.7K | 1/4W | CARBON | В |
| | R822 | QRD148J-472S | 4.7K | 1/4W | CARBON | G |
| ļ | R823 | | 820 | 1/4W | CARBON | В |
| | R823 | | 820 | | CARBON | G |
| Δ | R824 | QRG012J-222A | 2.2K | 1W | O.M.FILM | В |
| <u>A</u> | R824 | QRG012J-222A | 2.2K | 1 W | O.M.FILM | G |
| A | R831 R832 | | 22 18K | 1W 1/2W | D.M.FILM Unf.Carbon | |
| _ | R901 | | | | CARBON | |
| | R902 | QRD148J-681S | | | CARBON |] |
| | R903 | | 5.6K | | CARBON | 1 |
| | | | | | | |

Resistors

| | | | Ι | | | | T |
|-----|------|---------------|------|------|-----------|-------|------|
| Δ | ITEM | PART NUMBER | DESC | CRI | P T I | O N | AREA |
| | R904 | QRD148J-562S | 5.6K | 1/44 | CARBO |) N | |
| 1 1 | R905 | QRD148J-123S | 12K | 1/4W | CARBO | | |
| | R906 | QRD148J-123S | 12K | 1/48 | CARBO | | ł |
| | R907 | QRD148J-152S | 1.5K | 1/48 | CARBO | | |
| | R908 | QRD148J-152S | 1.5K | 1/4W | CARBO | | |
| | R909 | QRD148J-103S | 10K | 1/4W | CARBO | | |
| | R911 | QRD148J-332S | 3.3K | 1/4W | CARBO | | |
| | R912 | QRD148J-473S | 47K | 1/4W | CARBO | N | |
| | R913 | QRD148J-104S | 100K | 1/4W | CARBO | | |
| | R914 | QRD148J-823S | 82K | 1/4W | CARBO | | |
| | R915 | QRD148J-473S | 47K | 1/4W | CARBO | | |
| | R916 | QRD148J-563S | 56K | 1/4W | CARBO | | |
| | R917 | QRD148J-683S | 68K | 1/48 | CARBO | N | i |
| | R918 | QRD148J-392\$ | 3.9K | 1/4W | CARBO | N | |
| | R919 | QRD148J-392S | 3.9K | 1/4W | CARBO | | |
| | R920 | QRD148J-333\$ | 33K | 1/4W | CARBO | | |
| | R921 | QRD148J-224S | 220K | 1/4W | CARBO | N | 1 |
| | R922 | QRD148J-562S | 5.6K | 1/4W | CARBO | N | |
| Δ | R923 | QRG022J-182A | 1.8K | 2W | 0 . M . F | | |
| l | R924 | QRD148J-181S | 180 | 1/4W | CARBO | N | В |
| | R924 | QRD148J-330S | 33 | 1/4W | CARBO | | D |
| | R924 | QRD148J-330S | 33 | 1/4W | CARBO | N | E |
| | R924 | QRD148J-330S | 33 | 1/4W | CARBO | N | اة |
| Δ | R931 | QRD145J-470S | 47 | 1/4W | UNF.C | ARBON | |
| | R935 | | 8.2K | 1/4W | CARBO | N | |
| | R936 | QRD148J-682S | 6.8K | 1/4W | CARBO | N | |
| 1 1 | R937 | QRD148J-472S | 4.7K | 1/4W | CARBO | N | |
| Δ | R941 | QRG022J-471A | 470 | 2W | 0.M.F | ILM | - |
| Δ | R942 | QRG022J-471A | 470 | 2 W | O.M.F | ILM | l |
| ļ | R943 | QRD148J-473S | 47K | 1/4W | CARBO | N | i |
| | R944 | QRD148J-473S | 47K | 1/4W | CARBO | N | |
| Δ | R951 | QRZ0062-100 | 10 | 1/4W | FUSIB | LE | E |
| Δ | R952 | QRZ0062-100 | 10 | 1/4W | FUSIB | LE | E |
| Δ | R953 | QRZ0062-100 | 10 | 1/4W | FUSIB | | E |
| Δ | R954 | QRZ0062-100 | 10 | 1/4W | FUSIB | LE | E |

Others

| | 11012 | | - | | | | _ | - | - | _ | | _ | | | | _ | _ | _ | | _ | | | | | |
|-----|-------|----|-----|----|----|----------|-----|-----|-----|-----------|-------|-----|-----|-----|-----------|---------|------|------|-----------|-------|-----------|-------|-------------|-----|-------------|
| Δ | ITEM | F | Α | R | Т | 1 | v u | ı N | 4 B | E | R | D | E | s | С | | R | I | P | Τ | I | 0 | N | A F | EA |
| | | E | ME | 90 | 01 | P | -8 | 0 | 10 | | | SPI | EAI | ΚE | R | τ | ΕR | M | I N | AL | | | | П | |
| | | E | 11 | 14 | 14 | - | 10 | 5 | | | | Ci | rc | u i | Ĺŧ | E | 30 | 8.1 | d | | | | | i | |
| | | Ε | 30 | 0 | 10 | 7 | -0 | 0 | 5 | | | C. | 3.1 | 10 | LD | E | R | | | | | | | 1 | |
| | | Ε | 30 | 0 | 10 | 7 | -0 | 0 | 6 | | | c.e | 9.1 | 10 | LD | E | R | | | | | | | 1 | |
| | | Ε | 30 | 0 | 20 | 9 | -0 | 2 | 1 | | | HE/ | ١T | S | ΙN | ĸ | | | | | | | | В | |
| | | Ε | 30 | 0 | 20 | 9 | -0 | 2 | 4 | • • • • • | | HE/ | | | | | •••• | •••• | • • • • • | ••••• | | | | , D | |
| | | E | 30 | 0 | 20 | 9 | -0 | 2 | 4 | | | HE/ | \T | S | ΙN | ĸ | | | | | | | | E | |
| | | E | 30 | 0 | 20 | 9 | -0 | 2 | 4 | | | HE/ | T/ | S | ΙN | ĸ | | | | | | | | ĪĠ | |
| | | | | | | | 00 | | | | | TIE | 1 | BA | ND | | | | | | | | | - | |
| | | E | 65 | 5 | 08 | ; | 00 | 2 | | | | TAE | 3 | | | | | | | | | | | В | |
| | | | | | | | 00 | | | | ***** | TAE | | | • • • • • | • • • • | | *** | | | | •••• | • • • • • • | G. | • • • • • • |
| | | E | 67 | 7 | 64 | . – | 10 | 2 | | | | WR/ | PI | PI | NG | • | TΕ | Ri | I | NA | L | | | В | |
| | | E | 67 | 7 | 64 | . – | 10 | 2 | | | | WRA | | | | | | | | | | | | G | |
| | | E | 67 | 7 | 64 | . – | 20 | 2 | | | | WRA | | | | | | | | | | | | B | |
| | | E | 67 | 7 | 64 | - | 20 | 2 | | | | WR/ | P | 71 | NG | , | TE | RN | 111 | NAI | Ĺ | | | G | |
| | | E | 67 | 7 | 64 | - | 30 | 2 | | | | WR/ | P | ï | NG | | ŤΕ | R١ | iii | NAI | Ī | ••••• | ••••• | B | ••••• |
| | | E | 67 | 7 | 64 | - | 30 | 2 | | | | WRA | | | | | | | | | | | | G | |
| | | E | 67 | 7 | 64 | - | 30 | 3 | | | | WRA | | | | | | | | | | | | В | |
| | | E | 67 | 7 | 64 | - | 30 | 3 | | | | WRA | | | | | | | | | | | | G | |
| | | E | 70 | 8 | 59 | - | 00 | 1 | | | | EAF | | | | | | | _ | | | | | - | |
| | | E | 70 | 9 | 45 | ~ | ΗŽ | 5 | В | **** | **** | HEA | | | | | | *** | **** | **** | **** | ••••• | ***** | | |
| | | E: | 73 | 0 | 90 | - | 00 | 1 | | | | PLA | | | | | | | | | | | | В | |
| | | E. | 73 | 2 | 65 | - | 00 | 1 | | | | SCF | E | ı | | | | | | | | | | - | |
| | | S | BS | В | 30 | 0 | 80 | C | | | | SCF | E | 1 | | | | | | | | | | } | |
| | | SI | BS | В | 30 | 0 | 80 | Ċ | | | | SCF | RE1 | 1 | | | | | | | | | | 1 | |
| | | SI | BS | В | 30 | 0 | 8 C | C | | | | SCF | REV | Į | | | | | | | | | | | |
| | | SI | BS | В | 30 | 0 | 80 | C | | | | SCF | E | ı | | | | | | | | | | | |
| | | SI | BS | 8 | 30 | 0 | 8 C | C | | | | SCF | E | į | **** | *** | *** | •••• | •••• | | **** | ••••• | ••••• | В | |
| | | SI | BS | В | 30 | 0 | 8 C | С | | | | SCF | E | 1 | | | | | | | | | | G | |
| | | SI | BS | E | 30 | 1 | 6 C | ¢ | | | | SCF | E | ł | | | | | | | | | | ĺ | |
| Δ | J001 | QI | M C | 0 | 63 | 7 | -0 | 0 | 4 | | | AC | 01 | ITE | . E | T | | | | | | | | В | |
| Δ., | J001 | QI | | | | | | | | | | AC | 01 | ITI | E | Ŧ | | | | | | | | G | |
| 1 | J901 | | | | | | -0 | | | | | HEA | | | | Ë | J | A C | K | ***** | •••• | | | | **** |
| | L751 | | | | | | -1 | | | | | IND | U | T |)R | | | | | | | | | | |
| Ì | L752 | | | | | | -1 | | | | | IND | UC | T |)R | | | | | | | | | ם | |
| | L752 | | | | | | -1 | | | | | IND | UC | T | R | | | | | | | | | E | |
| | L752 | | | | | | | | | | | IND | | | | | | | | | | | 1 | G | |
| | L752 | | | | | | | | | • | | IND | UC | T | ÌŔ | ••• | ••• | | | | • • • • • | | | В | •••• |
| | P301 | | | | | | -0 | | | | | CON | NE | C | O | R | | | | | | | | | |
| | P354 | | | | | | | | | | | CON | | | | | | | | | | | | | |
| | P405 | | | | | | -0 | | | | | CON | | | | | | | | | | | | | |
| - 1 | P441 | E | ٩٧ | 7 | 11 | 2 | -0 | 0 | 3 | | | CON | ΝE | CI | TO! | R | | | | | | | | | |

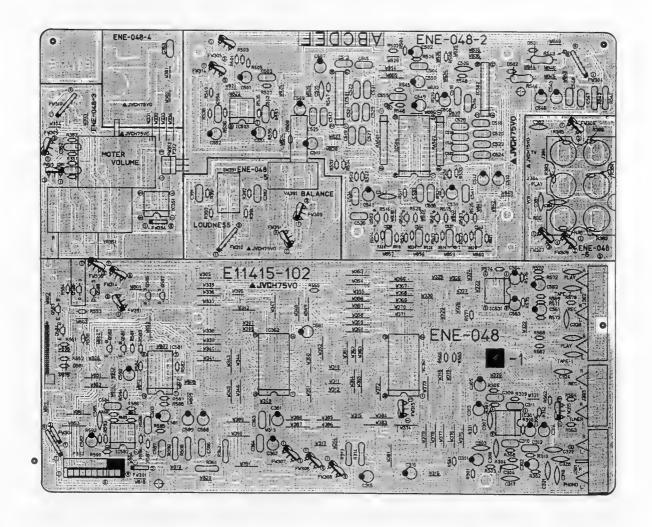
Others

| | | | | | | | | | | | | | | _ | _ | | | Т | _ | |
|-----|-------|-------|------|-----|----|-----|-----|------|-----|-------|-------|-------|-----------|-----|---|---|---|----|-----|---|
| Δ | ITEM | PART | NU | МВ | EF | ₹ | D | E | S | С | R | I | Р | Т | 1 | 0 | N | A: | R E | Α |
| | P801 | EMV71 | 12-0 | 03 | | | CON | IN E | CT | T O F | ₹ | | | | | | | Т | | |
| | P804 | EMV71 | 12-0 | 03 | | - 1 | CON | N E | C 1 | TOF | ₹ | | | | | | | | | |
| 1 1 | P805 | E6776 | 4-10 | 3 | | | WRA | PF | IN | l G | TE | RI | MI | NAI | L | | | | | |
| | P806 | E6776 | 4-10 | 3 | | - 1 | WRA | PF | IN | ł G | TE | RI | ٩I | NAI | L | | | | | |
| | P807 | EMV71 | 12-0 | 04 | | | CON | N E | C 1 | OF | } | | | | | | | 1 | 3 | |
| | P807 | EMV71 | 12-0 | 04 | | 1 | CON | IN E | C1 | OF | ₹ | | • • • • • | | | | | 1 | G | |
| Δ | 5001 | QSROO | 85-0 | 080 | | - | VOL | .TA | GE | : 5 | S E L | . E (| 11 |) R | | | | | В | |
| Δ | 5001 | QSROO | 85-0 | 11 | | | VOL | TA | GE | : 5 | SEL | . E (| T |) R | | | | ì | G | |
| | \$901 | QST42 | 41-E | 10 | | | PUS | Н | SV | /II | CH | 1 | | | | | | | | |
| | 5902 | QST42 | 41-E | 10 | | | PUS | Н | SV | ۷I٦ | CH | | | | | | | | | |
| Δ | T002 | ETP10 | 00-4 | 1ZA | | ``` | POW | /EF | 1 | R/ | NS | F(| RI | MER | ? | | | | В | |
| Δ | TOOS | ETP10 | 00-4 | 1ZA | | | POW | /EF | 1 | R/ | N S | FC | ORI | 4E | 2 | | | | G | |
| | FW801 | EWR33 | 8-13 | KST | | | FLA | ΙT | WI | RE | | | | | | | | | | |
| | FW802 | EWR34 | B-30 | SST | | | FLA | T | WI | RE | | | | | | | | | | |
| | FW803 | EWR36 | B-40 | SST | | | FLA | T | WI | RE | | | | | | | | | | |
| | FW804 | | | | | | FLA | | | | | | | | | | | | | |
| | RY001 | | | | | - 4 | REL | | | | | | | | | | | | 8 | |
| | RY001 | | | | | | REL | | | | | | | | | | | | G | |
| | RY901 | | | | | | REL | | | | | | | | | | | | - | |
| | | | | | | - | - | | | | | | | | | | | | | |

A : SAFETY PARTS

■ ENE-048 ☐ Analog Switch & Pin Jack PC Board Ass'y

Note: ENE-048 \square varies according to the areas employed. See note (1) when placing an order.



Note (1)

| PC Board Ass'y | Designated Areas |
|----------------|--|
| ENH-048 B | Other Countries |
| ENH-048 D | the U.K., Europe, Australia, Saudi Arabia |
| ENH-048 E | West Germany |

Transistors

| Δ | ITEM | PART NUMBER | DESCR | I P T I O N AREA |
|--------|--|---|---|---|
| \Box | | | | MAKER |
| | Q502 Q503 Q504 Q581 Q582 Q583 Q586 Q586 | DTC144EN DTC144EN DTA114YN 2SK105(H) | SILICON SILICON SILICON SILICON SILICON SILICON SILICON F.E.T F.E.T F.E.T | ROHM ROHM ROHM ROHM ROHM ROHM ROHM ROHM |
| | | | | |

I.C.s

| Δ | ITEM | PART NUMBER | DESCP | 1 P T 1 O N | AREA |
|---|----------------|------------------------------------|----------------------|-----------------------------------|----------|
| | | TAKT NOMBER | DESCR | MAKER | AKE |
| | IC351 | NJM4560DD LB1639 TC9164N | I.C. I.C. | DAINICHI SANYO TOSHIBA | |
| | IC362 IC501 | TC9162N BA3812L | 1.C. 1.C. | TOSHIBA ROHM ROHM | ******** |
| | 1C503 1C504 | NJM4560DD LC7522 | 1.C. | DAINICHI SANYO | |
| | IC581 | ********************************** | 1.C. 1.C. 1.C. | MITSUBISHI SANYO MITSUBISHI | ****** |
| | | | | | |
| | | | | | |

Diodes

| ⚠ ITEM | PART NUMBER | DESCR | 1 P T I O N M A K E R | AREA |
|--------|-------------|---------------------------|-----------------------|------|
| 0502 | MTZ6.BJC | ZENER ZENER Silicon | ROHM ROHM ROHM | |

Capacitors

| Λ | ITEM | PART | NUM | BER | D | E | s | С | R | 1 | P | T | 1 | 0 | N | A R | ΕA |
|---|------|--------|--------|-----|-----|----|---|------|-----|---|----|-----|-----|----|---|-----|-----|
| | C301 | | M-475 | | 4.7 | MF | | 5 | 0 | 1 | EL | .E(| . T | RO | | | |
| | C302 | QETB1 | M-475 | | 4.7 | MF | | 5 | ١0١ | 1 | Eι | .E(| : T | RO | | | |
| 1 | C303 | QCS21H | J-101 | | 100 | PF | | 5 | ١٥، | 7 | CE | R/ | ۱M | IC | | В | - 1 |
| | C303 | QCS21F | J-101 | | 100 | PF | | 5 | ٥0١ | 7 | CE | R/ | ١M | ΙC | | D | |
| l | C303 | QCS21F | IJ-331 | | 330 | PF | | 5 | 10 | 1 | CE | R/ | M | ΙC | | ÌΕ | |
| | C304 | QCS21H | J-101 | | 100 | PF | | | 0\ | , | Ct | R/ | ١M | IC | | В | |
| | C304 | QCS21F | J-101 | | 100 | PF | | 5 | 10 | 1 | CE | R/ | M | ΙC | | D | |
| | C304 | QCS21F | J-331 | | 330 | PF | | 5 | 01 | 1 | CE | R/ | ۱M | IC | | E | |
| | C305 | QETB1 | M-476 | | 471 | 1F | | - 12 | 101 | 1 | EL | E C | T | RO | | l | |
| | C306 | QETB1/ | M-476 | | 471 | F | | 12 | 101 | 1 | Et | E(| T | RO | | l | |
| 1 | C307 | QCS21H | IJ-101 | | 100 | PF | | 1 | ٥Ô١ | , | CE | R/ | ١M | IC | | | |
| | C308 | QCS21F | IJ-101 | | 100 | PF | | 5 | 01 | 1 | CE | R/ | M | IC | | | |
| | C309 | QFN81H | IJ-182 | | 180 | OP | F | 5 | 01 | 1 | M١ | L | ٩R | | | | |
| | C310 | QFN81H | IJ-182 | | 180 | OP | F | - 1 | 01 | 1 | Mi | L | ٩R | | | | |
| L | C311 | | J-682 | | 680 | OP | F | 5 | 01 | , | Mi | L | ٩R | | | | |
| | C312 | | IJ-682 | | 680 | OP | F | | 01 | 1 | M١ | L | ١R | | | 1 | |
| 1 | C313 | QETB1 | IM-475 | | 4.7 | MF | | - | ٥0١ | 1 | Εl | E(| CT | RO | | l | |
| | C314 | QETB1H | M-475 | | 4.7 | MF | | 5 | ٥0١ | 1 | Eι | .E(| Ť | RO | | l | |
| 1 | C315 | QETB1 | M-226 | | 221 | F | | 1 | 251 | 1 | ΕL | Ε(| T | RO | | l | |
| L | C316 | QETB1 | M-226 | | 221 | F | | | 251 | | EI | E(| T | RO | | | |

2-12 (No. 20113)

Capacitors

| Δ | ITEM | PART NUMBER | DESC | R I | PTION | ARE |
|------|--------------|----------------------------|--------------------|------------|--------------------|--------|
| | C317 | QCS21HJ-101 QCS21HJ-101 | 100PF 100PF | 50V 50V | CERAMIC | В |
| | C318 | QCS21HJ-101A | 100PF | SOV | CERAMIC | D B |
| | C318 | QCS21HJ-101A | 100PF | 50V | CERAMIC | D |
| | C321 | QFN81HJ-223 QFN81HJ-223 | 0.022MF | 50V | MYLAR | Ì |
| | C324 | QFN81HJ-223 | 0.022MF | 50V | MYLAR Mylar | |
| | C326 | QFN81HJ-223 | 0.022MF | 50V | MYLAR | |
| | C328 | QFV81HJ-473 QCS21HJ-331 | 0.047MF 330PF | 50V 50V | T.FILM | _ |
| | C332 | QCS21HJ-331 | 330PF | SOV | CERAMIC | E |
| | C333 | QCS21HJ-331 | 330PF | sov | CERAMIC | E |
| | C334 | QCS21HJ-331 QCS21HJ-331 | 330PF 330PF | SOV | CERAMIC | |
| | C336 | QCS21HJ-331 | 330PF | 50V | CERAMIC CERAMIC | E |
| | C337 | QCS21HJ-331 | 330PF | 50V | CERAMIC | Ε |
| •••• | C338 | QCS21HJ-331 QCS21HJ-331 | 330PF 330PF | 50V | CERAMIC | E |
| | C340 | QCS21HJ-331 | 330PF | SOV | CERAMIC | Ē |
| | C341 | QCS21HJ-331 | 330PF | 50V | CERAMIC | Ē |
| ì | C342 | QCS21HJ-331 QCS21HJ-181 | 330PF 180PF | 50V | CERAMIC | E |
| **** | C352 | QC 321HJ-181 | 180PF | 50V | CERAMIC CERAMIC | |
| | C353 | QFN81HJ-473 | 0.047MF | 50V | MYLAR | |
| | C361 | QETB1EM-476 QETB1EM-476 | 47MF 47MF | 25V 25V | ELECTRO | |
| | C363 | QFN81HJ-223 | 0.022MF | | ELECTRO Mylar | |
| | C364 | QFN81HJ-223 | 0-022MF | 50V 50V | MYLAR | ••••• |
| | C381 | QCF21HP-223 QCF21HP-223 | 0.022MF 0.022MF | 50V 50V | CERAMIC | |
| | C384 | QFN81HJ-473 | 0.047MF | SOV | CERAMIC MYLAR | |
| | C391 | QFN81HJ-123 | 0.012MF | 50V 50V | MYLAR | |
| | C392 C501 | QFN81HJ-123 QETB1HM-475 | 0.012MF 4.7MF | | MYLAR ELECTRO · | |
| | C502 | QETB1HM-475 | 4.7MF | 50V 50V | ELECTRO | |
| | C503 | QC\$21HJ-470 | 47PF | 50V | CERAMIC | |
| | C504 | QCS21HJ-470 QCS21HJ-101 | 47PF 100PF | 50V 50V | CERAMIC CERAMIC | |
| | C506 | QCS21HJ-101 | | 50V | CERAMIC | |
| | C507 | QET81HM-475 | | SOV | ELECTRO | |
| | C508 | QETB1HM-475 QETB1HM-475 | 4.7MF 4.7MF | 50V 50V | ELECTRO | |
| **** | C510 | QETB1HM-475 | 4.7MF | 50V | ELECTRO ELECTRO | ••••• |
| | C511 | QETB1HM-475 | 4.7MF | 50V | ELECTRO | |
| | C512 | QETB1HM-475 QFN81HJ-153 | | 500 | ELECTRO | |
| | C514 | QFN81HJ-153 | | 50V 50V | MYLAR MYLAR | |
| | C515 | QFN81HJ-104 | 0.1MF | 50V | MYLAR | |
| | C516 | QFN81HJ-104 QCS21HJ-331 | 0.1MF | 50V | MYLAR | |
| | C518 | | | 50V 50V | CERAMIC MYLAR | |
| | C519 | QFN81HJ-102 | 1000PF | 50V | MYLAR | |
| | C520 | QFN81HJ-272 QFN81HJ-272 | | 50V | MYLAR | |
| | C522 | | | 50V 50V | MYLAR MYLAR | |
| | C523 | QFN81HJ-562 | 5600PF | SOV | MYLAR | |
| | C524 | QCS21HJ-331 | 330PF | SOV | CERAMIC | |
| | C525 | | 2200PF | | MYLAR Mylar | |
| ı | C527 | QFN81HJ-562 | 5600PF | SOV | MYLAR | |
| | C528 | QFN81HJ-123 | 0.012MF | 50V | MYLAR | |
| | C529 | | 0.012MF 5600PF | | MYLAR Mylar | |
| | C531 | QFN81HJ-333 | 0.033MF | 50V | MYLAR | |
| | C532 | | | | MYLAR | |
| | C534 | | | | T.FILM T.FILM | |
| *** | C535 | | 0.068MF | 50V | MYLAR | ••••• |
| | C536 | | | 50V | MYLAR | |
| | | | | | MYLAR MYLAR | |
| | C539 | QEK61HM-224G | 0.22MF | 50V | ELECTRO | |
| | C540 | QEK61HM-224G | 0.22MF | SOV | ELECTRO | |
| | C542 | | | | MYLAR MYLAR | |
| | C543 | QFN81HJ-472 | 4700PF | 50V | MYLAR | |
| | C544 | QFN81HJ-472 | 4700PF 4.7MF | 50V | MYLAR | |
| | | QETB1HM-475 QETB1HM-475 | | | ELECTRO ELECTRO | |
| | C547 | QFN81HJ-223 | 0.022MF | 50V | MYLAR | |
| | C548 | | | 50V | MYLAR | |
| | C549 | QETB1HM-475 QETB1HM-475 | | | ELECTRO ELECTRO | |
| | C551 | QETB1HM-475 | | | ELECTRO | |
| | C552 | QETB1HM-475 | 4.7MF | 50V | ELECTRO | |
| -1 | C553 | | | | CERAMIC | |
| | C555 | QFN81HJ-223 | | | CERAMIC MYLAR | |
| | C561 | QETB1EM-106 | 10MF | 25V | ELECTRO | |
| | C562 | QETB1EM-106 | 10MF | 257 | ELECTRO | |

Capacitors

| Δ | ITEM | PART NUMBER | DESC | R 1 | PTION | AREA |
|---|------|-------------|---------|-----|-----------|------|
| | C563 | QETB1EM-106 | 10MF | 25V | ELECTRO | |
| | C564 | QETB1EM-106 | 10MF | 25V | ELECTRO | |
| | C581 | QETB1HM-475 | 4.7MF | 50V | ELECTRO | |
| | C582 | QETB1HM-475 | 4.7MF | 50V | ELECTRO | |
| | C584 | QFN81HJ-472 | 4700PF | 50V | MYLAR | |
| | C585 | QCS21HJ-271 | 270PF | 50V | CERAMIC | |
| | C586 | QFN81HJ-223 | 0.022MF | 50V | MYLAR | |
| | C587 | QFN81HJ-223 | 0.022MF | SOV | MYLAR | |
| | C588 | QETB1EM-106 | 10MF | 25V | ELECTRO | |
| | C589 | QETB1EM-106 | 10MF | 25V | ELECTRO | |
| | C591 | EEZ1601-226 | 22MF | 16V | ELECTRO | |
| | C592 | EEZ1601-226 | 22MF | 16V | ELECTRO | |
| | | | Δ | | AFETY PAR | TS |

| Re | sistor | 's | Δ | s : S/ | AFETY PAR | TS |
|----|--------------|-----------------------------|--------------|--------------|----------------------|----------|
| ⚠ | ITEM | PART NUMBER | DESC | RI | PTION | AREA |
| | R301 | QRD167J-222 | 2.2K | 1/6W | CARBON | |
| | R302 | QRD167J-222 | | | CARBON | |
| | R304 | QRD167J-473 QRD167J-473 | 47K 47K | 1/6W 1/6W | CARBON CARBON | |
| | R305 | QRD167J-561 | | 1/6W | CARBON | |
| | R306 | QRD167J-561 | 560 | 1/6W | CARBON | |
| | R307 | QRD167J-393 QRD167J-393 | | | CARBON | |
| 1 | R309 | QRD167J-474 | | | CARBON | |
| | R310 | QRD167J-474 | 470K | 1/6W | CARBON | |
| | R311 R312 | QRD167J-104 | 100K | | CARBON | |
| Δ | R313 | QRD167J-104 QRD14CJ-680S | | | CARBON UNF.CARBON | |
| Δ | R314 | QRD14CJ-680S | 68 | | UNF.CARBON | |
| | R315 | QRD167J-152 | | | CARBON | <u>E</u> |
| ł | R316 R351 | QRD167J-152 QRD167J-105 | 1.5K 1M | 1/6W 1/6W | CARBON CARBON | E |
| | R352 | QRD167J-105 | 1M 1M | 1/6W | CARBON | |
| Δ | R361 | QRD14CJ-680S | | | UNF.CARBON | |
| Δ | R362 R381 | QRD14CJ-680S QRD167J-221 | | | UNF.CARBON CARBON | |
| | R382 | QRD167J-221 | 220 | 1/6W; | CARBON | |
| | R383 | QRD167J-221 | 220 | 1/6W | CARBON | [|
| | R384 | QRD167J-221 QRD167J-221 | | 1/6W 1/6W | CARBON Carbon | |
| | R386 | | 1 | | CARBON | |
| | R391 | QRD167J-683 | 68K | 1/6W | CARBON | l |
| | R392 | QRD167J-683 QRD167J-363 | 68K | 1/6W | CARBON CARBON | |
| | R393 R394 | QRD167J-363 | 36K 36K | 1/6W 1/6W | CARBON | |
| | R501 | QRD167J-104 | | 1/6W | ICARBON | |
|] | R502 | QRD167J-104 | 100K | 1/6W | CARBON | |
| | R503 | QRD167J-224 QRD167J-224 | 220K 220K | 1/6W | CARBON CARBON | |
| | R505 | QRD167J-224 | 220K | 1/6W | CARBON | |
| | R506 | QRD167J-224 | 220K | 1/6W | CARBON | |
| | R507 | QRD167J-101 QRD167J-101 | 100 | 1/6W | CARBON | |
| | R509 | QRD167J-113 | 100 11K | 1/6W | CARBON CARBON | |
| | R510 | | | 1/6W | CARBON | |
| | R511 | QRD167J-181 | 180 | 1/6W | CARBON | |
| | R512 R513 | QRD167J-181 QRD167J-821 | 180 820 | 1/6W | CARBON | |
| | R514 | QRD167J-821 | 820 | 1/6W | CARBON | |
| 1 | R515 | QRD167J-223 | 22K | 1/6W | CARBON | |
| | R516 R517 | QRD167J-223 QRD167J-154 | 22K 150K | 1/6W 1/6W | CARBON CARBON | |
| | R518 | | 150K | 1/6W | CARBON | ····- |
| | R519 | QRD167J-103 | 10K | 1/6W | CARBON | |
| ' | R520 R521 | QRD167J-103 QRD167J-221 | 10K | 1/6W | CARBON | |
| 1 | R522 | QRD167J-221 | 220 220 | 1/6W 1/6W | CARBON CARBON | |
| | R523 | QRD167J-821 | 820 | 1/6W | CARBON | |
| | R524 | QRD167J-821 | 820 | 1/6W | CARBON | |
| | R525 R526 | QRD167J-153 QRD167J-153 | 15K 15K | 1/6W | CARBON CARBON | |
| | R527 | QRD167J-104 | 100K | | | |
| Γ | R528 | | 100K | | CARBON | |
| | R529 R530 | | 10K 10K | 1/6W | CARBON CARBON | |
| | R531 | QRD167J-224 | 220K | 1/6W | CARBON | |
| | R532 | QRD167J-224 | 220K | 1/6W | CARBON | ļ |
| | R533 R534 | | 220K 220K | 1/6W 1/6W | CARBON CARBON | |
| | R535 | | 8.2K | 1/6W | CARBON | |
| | R536 | QRD167J-822 | 8.2K | 1/6W | CARBON | |
| | R537 | | 8.2K | 1/6W | CARBON | |
| | R538 | | 8.2K 220K | 1/6W | CARBON CARBON | |
| | R540 | | 220K | 1/6W | CARBON | |
| Δ | R541 | QRD14CJ-680S | 68 | 1/4W | UNF.CARBON | |
| | R542 | QRD14CJ-680S | 68 | 1/4W | UNF.CARBON | 1 |

Resistors

| Δ | ITEM | PART NUMBER | DESC | RI | PTION | AREA |
|----------|-------|--------------|------|------|-------------|-----------|
| Δ | R543 | QRD125J-271 | 270 | 1/2W | UNF.CARBON | |
| <u>A</u> | R544 | | 270 | | UNF. CARBON | |
| _ | R545 | | 680 | | CARBON | |
| | R546 | | 2.7K | | CARBON | |
| | R547 | QRD167J-113 | 11K | 1/6W | CARBON | |
| | R548 | QRD167J-113 | 11K | 1/6W | CARBON | |
| | R551 | QRD167J-103 | | | CARBON | |
| } | R552 | | B2K | | CARBON | |
| | R553 | QRD167J-103 | | 1 | CARBON | |
| | R554 | | 10K | 1/6W | CARBON | |
| | R555 | | 3.3K | | CARBON | |
| | R556 | | 3.3K | 1/6W | CARBON | |
| i | R561 | QRD167J-221 | 220 | | CARBON | |
| 1 | R562 | QRD167J-221 | 220 | | CARBON | |
| | R563 | | 220 | 1/6W | CARBON | |
| | R564 | QRD167J-221 | 220 | 1/6W | CARBON | |
| | R565 | | 220 | 1/6W | CARBON | |
| | R566 | | 220 | 1/6W | CARBON | |
| ļ | R567 | | 220 | 1/6W | CARBON | |
| | R568 | | 220 | 1/6W | CARBON | |
| | R569 | | 1K | 1/6W | CARBON | |
| | R570 | | 1K | 1/6W | CARBON | |
| | R571 | QRD167J-823 | 82K | 1/6W | CARBON | 1 |
| | R572 | | 82K | 1/6W | CARBON | |
| , | R573 | QRD167J-124 | 120K | 1/6W | CARBON | |
| ····· | R574 | QRD167J-124 | 120K | 1/6W | CARBON | ********* |
| | R575 | | 470K | 1/6W | CARBON | |
| | R576 | | 470K | 1/6W | CARBON | |
| | R577 | QRD167J-221 | 220 | 1/6W | CARBON | |
| 1 | R578 | | 220 | 1/6W | CARBON | · |
| | R581 | QRD167J-563 | 56K | 1/6W | CARBON | |
| ĺ | R582 | | 56K | 1/6W | CARBON | |
| | R583 | QRD167J-563 | 56K | 1/6W | CARBON | |
| | R584 | QRD167J-563 | SAK | 1/6W | CARBON | |
| | R585 | | 22K | 1/6W | CARBON | |
| ****** | R586 | | 27K | 1/6W | CARBON | |
| | R587 | QRD167J-474 | 470K | 1/6W | CARBON | |
| | R588 | | 470K | 1/6W | CARBON | |
| | R589 | | 22K | 1/6W | CARBON | |
| | R590 | | 470K | 1/6W | CARBON | |
| | R591 | | 100K | 1/6W | CARBON | |
| 1 | R592 | QRD167J-154 | 150K | 1/6W | CARBON | |
| | R593 | | 390K | 1/6W | CARBON | 1 |
| | R594 | QRD167J-474 | 470K | 1/6W | CARBON | |
| l | R595 | QRD167J-333 | 33K | | CARBON | 1 |
| [| R596 | QRD167J-562 | 5.6K | 1/6W | CARBON | |
| | R597 | QRD167J-273 | 27K | 1/6W | CARBON | Į. |
| Δ | R598 | QRD14CJ-680S | 68 | 1/4W | UNF. CARBON | ĺ |
| Δ | R599 | | 68 | 1/4W | UNF. CARBON | |
| | RA501 | QR8075J-474 | 470K | 1/8W | R.NETWORK | l |
| | RA502 | QR8075J-474 | 470K | 1/8W | R.NETWORK | 1 |
| | VR351 | QVDB91B-EF58 | 250K | | VARIABLE | |
| l | | | | | | |
| 1 | | | | 1 | | |
| L | L | | L | | L | |
| | | | | | | |

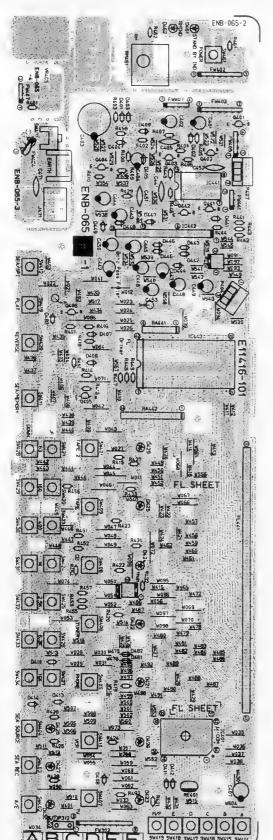
Others

| ~ | | | | | | | | | | _ | | | | | |
|----|----------------|--------|-------|-----|-----|------|-----|-----|---|-----|-------|---------|---|---|----------|
| ҈Ѧ | ITEM | PART | NUM | BEI | R D | ES | С | R | 1 | P | Т | 1 | 0 | N | AREA |
| Г | | E11415 | -103 | | Ci | rcu | it | Во | a | r d | | | | | |
| 1 | | E73837 | -001 | | | ACKE | | | | - | | | | | l |
| | | FE-ZMS | 409 | | | IELD | | INC | ì | | | | | | ļ |
| | | SBST30 | 06Z | | sc | REW | | | | | | | | | 1 |
| | J301 | EMNOOT | V-405 | SA. | 4 P | PIN | J. | ACI | | | | | | | |
| | J302 | EMNOOT | V-602 | A | 6P | PIN | J | ACK | | | ***** | | | | |
| | J303 | EMNOOT | V-402 | 2A | 4P | PIN | l J | ACK | (| | | | | | |
| | J304 | | | | 6P | PIN | J. | ACK | | | | | | | |
| | L301 | | | | IN | DUCT | OR | | | | | | | | E |
| ļ | | EQL400 | | | IN | DUCT | OR | | | | | | | | Ε |
| | | EMV711 | | | | NNEC | | | | | | | | | |
| | | QMV500 | | | | UG A | | | | | | | | | |
| | | EWR33B | | | | AT W | | | | | | | | | |
| 1 | | EWR35B | | | | AT W | | | | | | | | | |
| | FW305 | | | | | AT b | | | | | | | | | |
| | FW306 | | | | | AT W | | | | | | | | | |
| | FW307 | | | | | AT W | | | | | | | | | 1 |
| | | EWR230 | | | | AT W | | | | | | | | | |
| | | EWR230 | | | | AT W | | | | | | | | | |
| | FW310 | | | | | AT W | | | | | | | | | |
| | FW313 | | | | | AT W | | | | | | | | | ! |
| | FW314 | | | | | AT W | | | | | | | | | |
| | | EWR230 | | | | AT W | | | | | | | | | ļ |
| | FW354 | EWR338 | | | | AT W | | | | | | | | | |
| | FW391 SW391 | | | | | AT W | | | | | | | | | l |
| 1 | VA391 | | | | | SH S | | | 1 | | | | | | l |
| | V 4341 | QVDA98 | W-FL | C | ١٧- | RESI | 511 | UR | | | | | | | |
| L | 1 | L | | | | | | | | | | | | | L |

(No. 20113) 2-13

■ ENB-065 □ Logic & Tact Switch PC Board Ass'y

Note: ENB-065 \square varies according to the areas employed. See note (1) when placing an order.



| Note (| 1 |) |
|--------|---|---|
|--------|---|---|

| PC Board Ass'y | Designated Areas |
|----------------|--|
| ENH-065 B | Other Countries |
| ENH-065 D | the U.K., Europe, Australia, Saudi Arabia |
| ENH-065 E | West Germany |

Transistors

| A | ITEM | PART NUMBER | DESCR | I P T I O N AREA |
|---|------|-------------|---------|--------------------|
| | 9401 | DTA114EN | SILICON | ROHM |
| | Q402 | | SILICON | ROHM |
| | | | SILICON | HITACHI HITACHI |
| | | | SILICON | HITACHI |
| | 0441 | | SILICON | ROHM |
| | Q442 | | SILICON | ROHM |

I.C.s

| Δ | ITEM | PART NUMBER | DESCR | I P T I O N M A K E R | ΛRΕΑ |
|---|----------------|--|-------|------------------------------------|------|
| | IC441 IC442 | UPD75104G554-1B TC4013BP 7EL-SPI-001 LC7565 | I.C. | NEC TOSHIBA KYOSERA SANYO | |

Diodes

| A | ITEM | PART NUMBER | DESCR | IPTION | REA |
|---|------|-------------|---------|--------|-----------|
| | D401 | 188133 | SILICON | ROHM | |
| | 0402 | 155133 | SILICON | ROHM | |
| | D403 | 188133 | SILICON | ROHM | |
| | 0404 | MTZ5.6JC | ZENER | ROHM | |
| | 0405 | 155133 | SILICON | ROHM | |
| | 0406 | 188133 | SILICON | ROHM | |
| | 0407 | 188133 | SILICON | ROHM | |
| | D408 | 155133 | SILICON | ROHM | |
| | 0409 | 188133 | SILICON | ROHM | |
| | 0410 | 188133 | SILICON | ROHM | |
| | 0411 | 188133 | SILICON | ROHM | ******** |
| | D412 | 188133 | SILICON | ROHM | |
| | 0413 | 188133 | SILICON | ROHM | A SECTION |
| | D414 | 188133 | SILICON | ROHM | |
| | D421 | SLR-34DC3F | L.E.D. | ROHM | |
| | 0422 | SLR-34DC3F | L.E.D. | ROHM | |
| | 0423 | SLR-34DC3F | L.E.D. | ROHM | |
| | 0424 | SLR-34DC3F | L.E.D. | ROHM | |
| | | SLR-34DC3F | L.E.D. | ROHM | |
| | D426 | SLR-34DC3F | L.E.D. | ROHM | |
| | 0427 | SLR-34DC3F | L.E.D. | ROHM | |
| | D428 | SLR-34DC3F | L.E.D. | ROHM | |
| | 0429 | SLR-34VC3F | L.E.D. | ROHM | |
| | D430 | SLR-34DC3F | L.E.D. | ROHM | |
| | 0441 | 188133 | SILICON | ROHM | |
| | 0442 | | SILICON | ROHM | ., |
| | 0443 | 188133 | SILICON | ROHM | |
| | D444 | 155133 | SILICON | ROHM | |
| | D445 | 188133 | SILICON | ROHM | |
| | 0446 | 188133 | SILICON | ROHM | |
| | D447 | | SILICON | ROHM | |
| | D448 | | SILICON | ROHM | |
| 1 | D449 | 188133 | SILICON | ROHM | |
| | 0461 | | L.E.D. | ROHM | |
| | D462 | SLR-34VC3F | L.E.D. | ROHM | |

Capacitors

Registers

| TIEM | Re | sistor | 'S | | | | |
|--|---------|--------|--------------|------|-------|------------|-------|
| R402 QRD167J-222 2.2K 1/6W CARBON R405 QRD167J-331 330 16W CARBON R405 QRD167J-472 4.7K 1/6W CARBON R405 QRD167J-472 4.7K 1/6W CARBON R407 QRD167J-223 22K 1/6W CARBON R407 QRD167J-223 22K 1/6W CARBON R408 QRD167J-223 22K 1/6W CARBON R409 QRD167J-223 22K 1/6W CARBON R409 QRD167J-223 22K 1/6W CARBON R410 QRD167J-472 4.7K 1/6W CARBON R411 QRD167J-472 4.7K 1/6W CARBON R411 QRD167J-103 10K 1/6W CARBON R414 QRD167J-473 4.7K 1/6W CARBON R414 QRD167J-473 4.7K 1/6W CARBON R414 QRD167J-473 4.7K 1/6W CARBON R414 QRD167J-273 22K 1/6W CARBON R419 QRD167J-223 22K 1/6W CARBON R419 QRD167J-271 270 1/6W CARBON R419 QRD167J-271 270 1/6W CARBON R419 QRD167J-271 270 1/6W CARBON R422 QRD167J-271 270 1/6W CARBON R422 QRD167J-271 270 1/6W CARBON R424 QRD167J-271 270 1/6W CARBON R424 QRD167J-271 270 1/6W CARBON R424 QRD167J-271 270 1/6W CARBON R425 QRD167J-271 270 1/6W CARBON R426 QRD167J-271 270 1/6W CARBON R427 QRD167J-271 270 1/6W CARBON R429 QRD167J-104 100K 1/6W CARBON R431 QRD167J-104 100K 1/6W CARBON R432 QRD167J-104 100K 1/6W CARBON R432 QRD167J-104 100K 1/6W CARBON R432 QRD167J-104 100K 1/6W CARBON R431 QRD167J-103 10K 1/6W CARBON R431 QRD167J-103 10K 1/6W CARBON R431 QRD167J-103 10K 1/6W CARBON R431 QRD | Æ | ITEM | PART NUMBER | DESC | RI | PTION | AREA |
| R403 QRD167J-331 | | R401 | QRD167J-102 | 1K | 1/6W | CARBON | |
| R405 QRC167J-472 | | R402 | QRD167J-222 | 2.2K | 1/6W | CARBON | |
| R400 QRD167J-103 10K | | R403 | QRD167J-331 | 330 | 1/6W | CARBON | |
| R400 QRD167J-103 10K | | R405 | QRC167J-472 | 4.7K | 1/6W | CARBON | |
| R408 | | R406 | QRD167J-103 | 10K | | CARBON | |
| R409 QRD167J-223 | | R407 | QRD167J-223 | 22K | 1/6W | CARBON | |
| R410 QRD167J-183 18K 1/6W CARBON R413 QRD167J-183 18K 1/6W CARBON R413 QRD167J-103 10K 1/6W CARBON R414 QRD167J-471 470 1/6W CARBON R414 QRD167J-473 47K 1/6W CARBON R416 QRD167J-473 47K 1/6W CARBON R416 QRD167J-223 22K 1/6W CARBON R417 QRD167J-271 270 1/6W CARBON R419 QRD167J-271 270 1/6W CARBON R419 QRD167J-271 270 1/6W CARBON R421 QRD167J-271 270 1/6W CARBON R422 QRD167J-271 270 1/6W CARBON R423 QRD167J-271 270 1/6W CARBON R423 QRD167J-271 270 1/6W CARBON R424 QRD167J-271 270 1/6W CARBON R425 QRD167J-271 270 1/6W CARBON R426 QRD167J-271 270 1/6W CARBON R426 QRD167J-271 270 1/6W CARBON R427 QRD167J-271 270 1/6W CARBON R428 QRD167J-271 270 1/6W CARBON R429 QRD167J-271 270 1/6W CARBON R429 QRD167J-271 270 1/6W CARBON R429 QRD167J-271 270 1/6W CARBON R431 QRD167J-104 100K 1/6W CARBON R432 QRD167J-104 100K 1/6W CARBON R432 QRD167J-104 100K 1/6W CARBON R431 QRD167J-104 100K 1/6W CARBON R432 QRD167J-104 100K 1/6W CARBON R441 QRD167J-104 100K 1/6W CARBON R441 QRD167J-104 100K 1/6W CARBON R441 QRD167J-104 100K 1/6W CARBON R442 QRD167J-104 100K 1/6W CARBON R443 QRD167J-104 100K 1/6W CARBON R445 QRD167J-473 47K 1/6W CARBON R446 QRD167J-473 47K 1/6W CARBON R445 QRD167J-103 10K 1/6W CARBON R445 QRD167J-103 10K 1/6W CARBON R453 QRD167J-104 100K 1/6W CARBON R453 QRD167J-103 10K 1/6W CARBON R453 QRD167J-104 100K 1/6W CARBON | | R408 | | 47K | 1/6W | CARBON | |
| R411 GRD167J-103 10K 1/6W CARBON R413 GRD167J-103 10K 1/6W CARBON R414 GRD167J-471 470 1/6W CARBON R416 GRD167J-473 47K 1/6W CARBON R417 GRD167J-223 22K 1/6W CARBON R417 GRD167J-223 22K 1/6W CARBON R419 GRD167J-271 270 1/6W CARBON R419 GRD167J-271 270 1/6W CARBON R420 GRD167J-271 270 1/6W CARBON R421 GRD167J-271 270 1/6W CARBON R421 GRD167J-271 270 1/6W CARBON R423 GRD167J-271 270 1/6W CARBON R423 GRD167J-271 270 1/6W CARBON R424 GRD167J-271 270 1/6W CARBON R425 GRD167J-271 270 1/6W CARBON R426 GRD167J-271 270 1/6W CARBON R427 GRD167J-271 270 1/6W CARBON R428 GRD167J-271 270 1/6W CARBON R428 GRD167J-271 270 1/6W CARBON R429 GRD167J-271 270 1/6W CARBON R429 GRD167J-271 270 1/6W CARBON R432 GRD167J-104 100K 1/6W CARBON R432 GRD167J-104 100K 1/6W CARBON R432 GRD167J-104 100K 1/6W CARBON R441 GRD167J-104 100K 1/6W CARBON R442 GRD167J-104 100K 1/6W CARBON R442 GRD167J-103 10K 1/6W CARBON R444 GRD167J-473 47K 1/6W CARBON R445 GRD167J-473 47K 1/6W CARBON R446 GRD167J-473 47K 1/6W CARBON R447 GRD167J-473 47K 1/6W CARBON R446 GRD167J-473 47K 1/6W CARBON R445 GRD167J-104 100K 1/6W CARBON R445 GRD167J-104 100K 1/6W CARBON R445 GRD167J-104 100K 1/6W CARBON R452 GRD167J-104 100K 1/6W CARBON R453 GRD167J-104 100K 1/6W CARBON R455 GRD167J-104 100K 1/6W CARBON R456 GRD167J-104 100K 1/6W CARBON R457 GRD167J-104 100K 1/6W CARBON R458 GRD167J-103 10K 1/6W CARBON R458 GRD16 | | | | | | CARBON | |
| R413 QRD167J-103 | | | | | 1/6W | CARBON | |
| R414 QRD167J-471 470 1/6W CARBON R417 QRD167J-473 47K 1/6W CARBON R417 QRD167J-271 270 1/6W CARBON R419 QRD167J-271 270 1/6W CARBON R419 QRD167J-271 270 1/6W CARBON R419 QRD167J-271 270 1/6W CARBON R421 QRD167J-271 270 1/6W CARBON R422 QRD167J-271 270 1/6W CARBON R422 QRD167J-271 270 1/6W CARBON R423 QRD167J-271 270 1/6W CARBON R424 QRD167J-271 270 1/6W CARBON R425 QRD167J-271 270 1/6W CARBON R425 QRD167J-271 270 1/6W CARBON R426 QRD167J-271 270 1/6W CARBON R427 QRD167J-271 270 1/6W CARBON R427 QRD167J-271 270 1/6W CARBON R428 QRD167J-271 270 1/6W CARBON R429 QRD167J-271 270 1/6W CARBON R429 QRD167J-271 270 1/6W CARBON R432 QRD167J-104 100K 1/6W CARBON R432 QRD167J-104 100K 1/6W CARBON R432 QRD167J-104 100K 1/6W CARBON R431 QRD167J-104 100K 1/6W CARBON R441 QRD167J-104 100K 1/6W CARBON R441 QRD167J-104 100K 1/6W CARBON R442 QRD167J-104 100K 1/6W CARBON R442 QRD167J-104 100K 1/6W CARBON R442 QRD167J-473 47K 1/6W CARBON R444 QRD167J-473 47K 1/6W CARBON R445 QRD167J-103 10K 1/6W CARBON R445 QRD167J-103 10K 1/6W CARBON R451 QRD167J-103 10K 1/6W CARBON R452 QRD167J-103 10K 1/6W CARBON R453 QRD167J-104 100K 1/6W CARBON R455 QRD167J-104 100K 1/6W CARBON R455 QRD167J-104 100K 1/6W CARBON R455 QRD167J-104 100K 1/6W CARBON R453 QRD167J-104 100K 1/6W CARBON R454 QRD167J-104 100K 1/6W CARBON R453 QRD167J-104 100K 1/6W CARBON R453 QRD167J-104 100K 1/6W CARBON R454 QRD167J-103 10K 1/6W CARBO | | | | | | | |
| R416 QRD167J-473 | | | | | | | |
| R417 QRD167J-223 | | - 1 | | | | | |
| R418 GRD167J-271 270 1/6W CARBON R419 GRD167J-271 270 1/6W CARBON CARBON R421 GRD167J-271 270 1/6W CARBON C | | | | | | | 1 1 |
| R419 QRD167J-271 270 1/6W CARBON R420 QRD167J-271 270 1/6W CARBON R421 QRD167J-271 270 1/6W CARBON R422 QRD167J-271 270 1/6W CARBON R422 QRD167J-271 270 1/6W CARBON R423 QRD167J-271 270 1/6W CARBON R425 QRD167J-271 270 1/6W CARBON R426 QRD167J-271 270 1/6W CARBON R426 QRD167J-271 270 1/6W CARBON R427 QRD167J-271 270 1/6W CARBON R428 QRD167J-271 270 1/6W CARBON R429 QRD167J-271 270 1/6W CARBON R431 QRD167J-104 100K 1/6W CARBON R432 QRD167J-104 100K 1/6W CARBON R432 QRD167J-104 100K 1/6W CARBON R432 QRD167J-104 100K 1/6W CARBON R441 QRD167J-104 100K 1/6W CARBON R442 QRD167J-104 100K 1/6W CARBON R443 QRD167J-104 100K 1/6W CARBON R443 QRD167J-104 100K 1/6W CARBON R444 QRD167J-473 47K 1/6W CARBON R445 QRD167J-473 47K 1/6W CARBON R446 QRD167J-103 10K 1/6W CARBON R447 QRD167J-103 10K 1/6W CARBON R448 QRD167J-103 10K 1/6W CARBON R448 QRD167J-103 10K 1/6W CARBON R451 QRD167J-104 100K 1/6W CARBON R452 QRD167J-104 100K 1/6W CARBON R453 QRD167J-104 100K 1/6W CARBON R454 QRD167J-104 100K 1/6W CARBON R453 QRD167J-103 10K 1/6W CARBON R454 QRD167J-103 10K 1/6W CARBON R45 | | = . | | 1 | | | |
| R420 QRD167J-271 270 1/6W CARBON R421 QRD167J-271 270 1/6W CARBON R422 QRD167J-271 270 1/6W CARBON R423 QRD167J-271 270 1/6W CARBON R424 QRD167J-271 270 1/6W CARBON R424 QRD167J-271 270 1/6W CARBON R425 QRD167J-271 270 1/6W CARBON R426 QRD167J-271 270 1/6W CARBON R427 QRD167J-271 270 1/6W CARBON R429 QRD167J-271 270 1/6W CARBON R431 QRD167J-271 270 1/6W CARBON R432 QRD167J-104 100K 1/6W CARBON R432 QRD167J-104 100K 1/6W CARBON R432 QRD167J-104 100K 1/6W CARBON R443 QRD167J-104 100K 1/6W CARBON R442 QRD167J-104 100K 1/6W CARBON R442 QRD167J-103 10K 1/6W CARBON R442 QRD167J-473 47K 1/6W CARBON R444 QRD167J-473 47K 1/6W CARBON R445 QRD167J-473 47K 1/6W CARBON R445 QRD167J-473 47K 1/6W CARBON R446 QRD167J-473 47K 1/6W CARBON R445 QRD167J-473 47K 1/6W CARBON R445 QRD167J-103 10K 1/6W CARBON R456 QRD167J-104 100K 1/6W CARBON R457 QRD167J-104 100K 1/6W CARBON R458 QRD167J-104 100K 1/6W CARBON R459 QRD167J-103 10K 1/6W CARBON R459 QRD167J-104 100K 1/6W CARBON R459 QRD167J-103 10K 1/6W CARBON R589 QRD167J-103 10K 1/6W CARBON R589 QRD167J-104 100K 1/6W CARBON R589 QRD167J-103 10K 1/6W CARBON R589 QRD167J-103 10K 1/6W CARBON R589 QRD1 | | | | | | | |
| R421 QRD167J-271 270 1/6W CARBON R422 QRD167J-271 270 1/6W CARBON R423 QRD167J-271 270 1/6W CARBON R424 QRD167J-271 270 1/6W CARBON R425 QRD167J-271 270 1/6W CARBON R425 QRD167J-271 270 1/6W CARBON R426 QRD167J-271 270 1/6W CARBON R427 QRD167J-271 270 1/6W CARBON R428 QRD167J-271 270 1/6W CARBON R429 QRD167J-271 270 1/6W CARBON R431 QRD167J-104 100K 1/6W CARBON R432 QRD167J-104 100K 1/6W CARBON R432 QRD167J-104 100K 1/6W CARBON R431 QRD167J-104 100K 1/6W CARBON R443 QRD167J-104 100K 1/6W CARBON R441 QRD167J-473 47K 1/6W CARBON R442 QRD167J-473 47K 1/6W CARBON R442 QRD167J-473 47K 1/6W CARBON R444 QRD167J-473 47K 1/6W CARBON R445 QRD167J-474 470K 1/6W CARBON R445 QRD167J-103 10K 1/6W CARBON R451 QRD167J-104 100K 1/6W CARBON R452 QRD167J-104 100K 1/6W CARBON R453 QRD167J-104 100K 1/6W CARBON R455 QRD167J-104 100K 1/6W CARBON R456 QRD167J-104 100K 1/6W CARBON R457 QRD167J-104 100K 1/6W CARBON R458 QRD167J-101 100 1/6W CARBON R488 QRD167J-103 10K 1/6W CARBON R488 QRD167J-101 100 1/6W CARBON R488 QRD167J-103 10K 1/6W CARBON R888 QRD16 | | | | | | | [] |
| R422 QRD167J-271 270 1/6W CARBON R423 QRD167J-271 270 1/6W CARBON R424 QRD167J-271 270 1/6W CARBON CARBON R425 QRD167J-271 270 1/6W CARBON CARBON R426 QRD167J-271 270 1/6W CARBON CARBON R426 QRD167J-271 270 1/6W CARBON | ' | | | | | | |
| R423 QRD167J-271 270 1/6W CARBON R424 QRD167J-271 270 1/6W CARBON R425 QRD167J-271 270 1/6W CARBON R426 QRD167J-271 270 1/6W CARBON R427 QRD167J-271 270 1/6W CARBON R428 QRD167J-271 270 1/6W CARBON R429 QRD167J-271 270 1/6W CARBON R431 QRD167J-104 100K 1/6W CARBON R432 QRD167J-104 100K 1/6W CARBON R433 QRD167J-104 100K 1/6W CARBON R433 QRD167J-104 100K 1/6W CARBON R441 QRD167J-104 100K 1/6W CARBON R442 QRD167J-104 100K 1/6W CARBON R443 QRD167J-104 100K 1/6W CARBON R444 QRD167J-103 10K 1/6W CARBON R445 QRD167J-473 47K 1/6W CARBON R446 QRD167J-473 47K 1/6W CARBON R447 QRD167J-103 10K 1/6W CARBON R448 QRD167J-103 10K 1/6W CARBON R449 QRD167J-103 10K 1/6W CARBON R449 QRD167J-104 100K 1/6W CARBON R451 QRD167J-104 100K 1/6W CARBON R452 QRD167J-104 100K 1/6W CARBON R453 QRD167J-104 100K 1/6W CARBON R454 QRD167J-104 100K 1/6W CARBON R455 QRD167J-104 100K 1/6W CARBON R458 QRD167J-103 10K 1/6W CARBON R458 QRD167J-104 100K 1/6W CARBON R458 QRD167J-103 10K 1/6W CARBON R458 QRD167J-104 100K 1/6W CARBON R458 QRD167J-103 10K 1/6W CARBON R458 QRD167J-104 100K 1/6W CARBON R458 QRD167J-103 10K 1/6W CARBON R458 QRD167J-104 100K 1/6W CARBON R458 QRD167J-103 10K 1/6W CARBON R458 QRD167J-104 100K 1/6W CARBON R458 QRD167J-104 100K 1/6W CARBON R458 QRD167J-104 100K 1/6W CARBON R458 | | | | 1 | | | |
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| R445 QRD167J-473 | | | | | | | |
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| R447 QRD167J-474 470K 1/6W CARBON R448 QRD167J-474 470K 1/6W CARBON R449 QRD167J-183 18K 1/6W CARBON R451 QRD167J-104 100K 1/6W CARBON R452 QRD167J-104 100K 1/6W CARBON R452 QRD167J-104 100K 1/6W CARBON R453 QRD167J-104 100K 1/6W CARBON R455 QRD167J-104 100K 1/6W CARBON R455 QRD167J-104 100K 1/6W CARBON R455 QRD167J-104 100K 1/6W CARBON R458 QRD167J-104 100K 1/6W CARBON R458 QRD167J-104 100K 1/6W CARBON R458 QRD167J-223 22K 1/6W CARBON R458 QRD167J-271 270 1/6W CARBON R461 QRD167J-103 10K 1/6W CARBON R481 QRD167J-103 10K 1/6W CARBON R483 QRD167J-103 10K 1/6W CARBON R484 QRD167J-104 100K 1/10WR.NETWORK R442 QRB139J-104 100K 1/10WR.NETWORK R4461 QP1U501V | l | | | | | | |
| R448 QRD167J-474 470K 1/6W CARBON R449 QRD167J-183 18K 1/6W CARBON R451 QRD167J-104 100K 1/6W CARBON R452 QRD167J-104 100K 1/6W CARBON R453 QRD167J-104 100K 1/6W CARBON R455 QRD167J-104 100K 1/6W CARBON R455 QRD167J-104 100K 1/6W CARBON R456 QRD167J-104 100K 1/6W CARBON R457 QRD167J-104 100K 1/6W CARBON R457 QRD167J-104 100K 1/6W CARBON R458 QRD167J-223 22K 1/6W CARBON R461 QRD167J-271 270 1/6W CARBON R461 QRD167J-271 270 1/6W CARBON R483 QRD167J-101 100 1/6W CARBON R483 QRD167J-103 10K 1/6W CARBON R484 QRD167J-104 100K 1/10WR.NETWORK R444 QRB13J-104 100K 1/10WR.NETWORK R4461 QRD19J-104 100K 1/10WR.NETWORK R4461 QRD19J- | | | | | | | |
| R449 QRD167J-183 18K 1/6W CARBON R451 QRD167J-104 100K 1/6W CARBON R452 QRD167J-104 100K 1/6W CARBON R453 QRD167J-104 100K 1/6W CARBON R453 QRD167J-104 100K 1/6W CARBON R454 QRD167J-104 100K 1/6W CARBON R455 QRD167J-104 100K 1/6W CARBON R455 QRD167J-104 100K 1/6W CARBON R457 QRD167J-104 100K 1/6W CARBON R457 QRD167J-104 100K 1/6W CARBON R458 QRD167J-23 22K 1/6W CARBON R461 QRD167J-271 270 1/6W CARBON R461 QRD167J-101 100 1/6W CARBON R483 QRD167J-103 10K 1/6W CARBON R484 QRD167J-103 10K 1/6W CARBON R441 QRB079J-104 100K 1/10WR.NETWORK R4461 QRD139J-104 100K 1/10WR.NETWORK R4461 QRD150V | ļ | | | | | | |
| R451 QRD167J-104 100K 1/6W CARBON R452 QRD167J-104 100K 1/6W CARBON R453 QRD167J-104 100K 1/6W CARBON R454 QRD167J-104 100K 1/6W CARBON R455 QRD167J-104 100K 1/6W CARBON R455 QRD167J-104 100K 1/6W CARBON R456 QRD167J-104 100K 1/6W CARBON R458 QRD167J-223 22K 1/6W CARBON R458 QRD167J-2331 330 1/6W CARBON R461 QRD167J-271 270 1/6W CARBON R461 QRD167J-271 270 1/6W CARBON R463 QRD167J-103 10K 1/6W CARBON R483 QRD167J-103 10K 1/6W CARBON R484 QRD167J-104 100K 1/10WR.NETWORK R4461 QRD19J-104 100K 1/10WR.NETWORK R4461 QRD19J-104 100K 1/10WR.NETWORK RM461 QRD19J01V | 1 | | | | | | |
| R452 QRD167J-104 100K 1/6W CARBON R453 QRD167J-104 100K 1/6W CARBON R454 QRD167J-104 100K 1/6W CARBON R455 QRD167J-104 100K 1/6W CARBON R456 QRD167J-104 100K 1/6W CARBON R457 QRD167J-104 100K 1/6W CARBON R458 QRD167J-223 22K 1/6W CARBON R458 QRD167J-231 330 1/6W CARBON R461 QRD167J-271 270 1/6W CARBON R462 QRD167J-271 100 1/6W CARBON R481 QRD167J-101 100 1/6W CARBON R483 QRD167J-103 10K 1/6W CARBON R484 QRD167J-103 10K 1/6W CARBON R484 QRD167J-104 100K 1/10WR.NETWORK RA441 QRB079J-104 100K 1/10WR.NETWORK RA442 QRB139J-104 100K 1/10WR.NETWORK RA441 QRD10501V | 1 | | | | | | 1 |
| R453 GRD167J-104 100K 1/6W CARBON R454 GRD167J-104 100K 1/6W CARBON R455 GRD167J-104 100K 1/6W CARBON R456 GRD167J-104 100K 1/6W CARBON R457 GRD167J-104 100K 1/6W CARBON R458 GRD167J-223 22K 1/6W CARBON R458 GRD167J-231 330 1/6W CARBON R462 GRD167J-271 270 1/6W CARBON R461 GRD167J-101 100 1/6W CARBON R483 GRD167J-101 100 1/6W CARBON R484 GRD167J-103 10K 1/6W CARBON R484 GRD167J-103 10K 1/6W CARBON R484 GRD167J-104 100K 1/10WR.NETWORK R444 GRB079J-104 100K 1/10WR.NETWORK R444 GRB19J-104 100K 1/10WR.NETWORK R4461 GP1U501V SENSOR | i | | QRD167J-104 | | | | 1 |
| R454 QRD167J-104 100K 1/6W CARBON R455 QRD167J-104 100K 1/6W CARBON R456 QRD167J-104 100K 1/6W CARBON R457 QRD167J-104 100K 1/6W CARBON R458 QRD167J-223 22K 1/6W CARBON R461 QRD167J-231 330 1/6W CARBON R461 QRD167J-271 270 1/6W CARBON R462 QRD167J-101 100 1/6W CARBON R483 QRD167J-103 10K 1/6W CARBON R484 QRD167J-104 100K 1/10WR.NETWORK R4461 QRB139J-104 100K 1/10WR.NETWORK R4461 QRD1501V | | R453 | QRD167J-104 | | | | |
| R455 QRD167J-104 100K 1/6W CARBON R456 QRD167J-104 100K 1/6W CARBON R457 QRD167J-104 100K 1/6W CARBON R458 QRD167J-223 22K 1/6W CARBON R458 QRD167J-231 330 1/6W CARBON R461 QRD167J-271 270 1/6W CARBON R461 QRD167J-101 100 1/6W CARBON R483 QRD167J-103 10K 1/6W CARBON R484 QRD167J-103 10K 1/6W CARBON R484 QRD167J-103 10K 1/6W CARBON R484 QRD167J-104 100K 1/10WR.NETWORK R4441 QRB079J-104 100K 1/10WR.NETWORK R4461 QRD139J-104 100K 1/10WR.NETWORK R4461 QRD139J-104 100K 1/10WR.NETWORK RM461 QRD1501V | 1 | | | | | | |
| R457 QRD167J-104 100K 1/6W CARBON R458 QRD167J-223 22K 1/6W CARBON R461 QRD167J-2331 330 1/6W CARBON R462 QRD167J-271 270 1/6W CARBON R463 QRD167J-101 100 1/6W CARBON R483 QRD167J-103 10K 1/6W CARBON R484 QRD167J-103 10K 1/6W CARBON R484 QRD167J-103 10K 1/6W CARBON R484 QRD167J-104 100K 1/10WR.NETWORK R4441 QRB079J-104 100K 1/10WR.NETWORK R4442 QRB139J-104 100K 1/10WR.NETWORK R4461 GP1U501V SENSOR | į į | | | | | | l |
| R458 QRD167J-223 22K 1/6W CARBON R461 QRD167J-331 330 1/6W CARBON R462 QRD167J-271 270 1/6W CARBON R481 QRD167J-101 100 1/6W CARBON R483 QRD167J-103 10K 1/6W CARBON R484 QRD167J-103 10K 1/6W CARBON R484 QRD167J-103 10K 1/6W CARBON R484 QRB167J-104 100K 1/10WR.NETWORK R4441 QRB139J-104 100K 1/10WR.NETWORK R4461 GP1U501V SENSOR | | R456 | QRD167J-104 | 100K | 1/6W | CARBON | 1 |
| R458 QRD167J-223 22K 1/6W CARBON R461 QRD167J-2331 330 1/6W CARBON R462 QRD167J-271 270 1/6W CARBON R481 QRD167J-103 100 1/6W CARBON R483 QRD167J-103 10K 1/6W CARBON R484 QRD167J-103 10K 1/6W CARBON R484 QRD167J-103 10K 1/6W CARBON R484 QRD167J-104 100K 1/10WR.NETWORK R4442 QRB139J-104 100K 1/10WR.NETWORK R4442 QRB139J-104 100K 1/10WR.NETWORK R4461 GP1U501V SENSOR | 1 | R457 | QRD167J-104 | 100K | 1/6W | CARBON | |
| R462 QRD167J-271 270 1/6W CARBON R481 QRD167J-101 100 1/6W CARBON R483 QRD167J-103 10K 1/6W CARBON R484 QRD167J-103 10K 1/6W CARBON R4441 QRB079J-104 100K 1/10WR.NETWORK R4442 QRB139J-104 100K 1/10WR.NETWORK R4461 GP1U501V SENSOR | | R458 | | | 1/6W | CARBON | ····· |
| R481 QRD167J-101 100 1/6W CARBON 1/6W CARB | ı | R461 | QRD167J-331 | 330 | 1/6W | CARBON | |
| R483 QRD167J-103 10K 1/6W CARBON R484 QRD167J-103 10K 1/6W CARBON RA441 QRB079J-104 100K 1/10WR.NETWORK R4442 QRB139J-104 100K 1/10WR.NETWORK R4461 GP1U501V SENSOR | | | QRD167J-271 | 270 | | | i |
| R484 QRD167J-103 10K 1/6W CARBON RA441 QRB079J-104 100K 1/10WR.NETWORK RA442 QRB139J-104 100K 1/10WR.NETWORK RM461 GP1U501V SENSOR | | | | 100 | 1/6W | CARBON | |
| RA441 RR8079J-104 100K 1/10WR.NETWORK RA442 RR8139J-104 100K 1/10WR.NETWORK RM461 GP1U501V SENSOR | 1 | R483 | | 10K | 1/6W | CARBON | |
| RA441 RR8079J-104 100K 1/10WR.NETWORK RA442 RR8139J-104 100K 1/10WR.NETWORK RM461 GP1U501V SENSOR | 1 | | | | 1/6W | CARBON | 1 |
| RM461 GP1U501V SENSOR | | | | | 1/10W | VR.NETWORK | |
| 1 | | | | 100K | 1/10W | | |
| VR405 QVDA98B-EF5C 250K VARIABLE | | | | | | | |
| | <u></u> | VR405 | QVDA98B-EF5C | 250K | | VARIABLE | 1 |

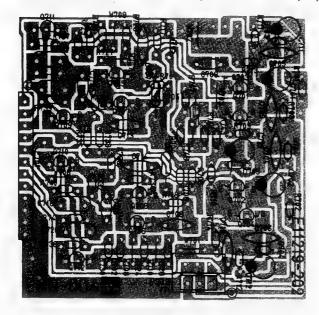
Others

| | 1013 | | | | | | | | | | _ | | | |
|-----|----------------|---------------------------------|-----|----|-----|-----|-----|----|-------|---|-----------|-----------|---|------|
| ▲ | ITEM | PART NUMBER | D | E | s | С | R | ı | Р | т | i | 0 | N | AREA |
| | 1 1 | E11416-101(S) | Ci | rc | u i | t | Вс | aı | rđ | | | | | l |
| | 1 1 | E3400-381 | FEL | | | | | | | | | | | |
| i . | | E70225-001 | EAF | | - | | | | | | | | | [|
| | J471 | | MII | | | ٩C | | | | | | | | |
| | P312 | EWS013-245 | 506 | | | | | = | | | | | | |
| | P401 | EMV5103-002A | PLI | | | | | | | | • • • • • | | | |
| 1 | P404 | EMV7112-003 | coi | | | | | | | | | | | |
| | P407 | | coi | | | | | | | | | | | i |
| 1 | FL441 | | FL | | - | _ | n. | | | | | | | 1 |
| 1 | FW302 | EWR39B-25KST | FL | | | | _ | | | | | | | ļ |
| | FW402 | EWR378-08SST | FL | | | | | | •••• | | | • • • • • | | |
| | FW404 | EWR23C-70JN | FL | | | | | | | | | | | 1 |
| l | FW405 | | FL | | | - | _ | | | | | | |] |
| Į . | FW407 | | | | | | _ | | | | | | | l |
| | | | FL/ | | | | - | | | | | | | 1 |
| | FW441 | EWR33B-30KST | FL | | W | | | | | | | | | |
| | FW807 | | FL | | | | | | | | | | | |
| | RE401 | | RE: | | | | | | | | | | | 1 |
| | SW401 | ESP0001-007 | TA | | | | TC | | | | | | | ł |
| | SW402 | ESP0001-007 | TA | | | | TC | | | | | | | 1 |
| | SW403 | | TA | | | | TC | | | | | | | |
| | SW404 | ESP0001-007 | TA | | | | ТC | | | | | | | 1 |
| 1 | SW405 | | TA | | | | TC | | | | | | | ŀ |
| | SW406 | | TA | | _ | | тc | | | | | | | 1 |
| ` | SW407 | | TA | | | _ | TC | | | | | | | 1 |
| | SW408 | ****** **** * ****** ********** | TA | | | | TC | | | | | | | |
| 1 | SW409 | | TA | | | | TC | | | | | | | |
| 1 | SW410 | | T-A | | | | ТC | | | | | | | } |
| | SW411 | | TA | | _ | | TC | | | | | | | |
| 1 | | ESP0001-007 | TA | | - | _ | ТÇ | | | | | | | 1 |
| | SW413 | | TA | | | | TC | | | | | | | ļ |
| | | ESP0001-007 | TA | | | | TC | | | | | | | |
| 1 | SW415 | | TA | | | | TC | | | | | | | |
| 1 | SW416 | | TA | | _ | | TC | | | | | | | 1 |
| 1 | SW417 | ESP0001-007 | TA | | | | TC | | | | | | | |
| | SW418 SW419 | ESP0001-007 | TA | | | | TC | | | | | | | |
| 1 | | | TA | | | | тc | | | | | | | 1 |
| | SW420 | | TA | | | | ТC | | | | | | | 1 |
| 1 | SW421 | | TA | | | | TC | | | | | | | |
| 1 | SW422 | | TA | | | | T C | | | | | | | |
| ļ | | ESP0001-007 | TA | CT | S | WI | TC | H. | | | | | | l |
| | SW424 | | TA | СТ | S | WΙ | TC | Н | | | | | | |
| | SW425 | | TA | | | WΙ | TC | Н | | | | | | 1 |
| | SW426 | ESP0001-007 | TA | СТ | S | WI | ŦC | Н | | | | | | |
| | SW427 | | TA | | S | WΙ | TC | Н | | | | | | 1 |
| l | SW428 | | TA | CT | S | W I | T,C | H | | | | | | l |
| | SW429 | | | | | WΙ | TC | H | | | | | | 1 |
| | SW430 | | TA | | | WΙ | TC | Н | | | | | | 1 |
| | SW431 | | TA | | | | TC | | | | | | | 1 |
| | SW432 | | TA | | | WΙ | TC | Н | | | | | | - |
| | SW433 | | TA | | | | TC | | | | | | | |
| 1 | SW434 | | TA | CT | S | WΙ | TC | Н | | | | | | |
| | SW461 | | TA | | | WΙ | TÇ | н | | | | | | |
| | SW471 | | TA | | | WΙ | TC | н | | | | | | |
| | TP401 | QMV5005-002K | PL | UG | Α | SS | Υ | | | | | | | |
| | | | 1 | | | | | | | | | | | |
| | | | | - | | A | | ~ | . Α Ι | | | | | 27.6 |

A : SAFETY PARTS

■ ENG-004 □ Pre-Drive PC Board Ass'y

Note: ENG-004 \square varies according to the areas employed. See note (1) when placing an order.



Note (1)

| PC Board Ass'y | Designated Areas |
|----------------|--|
| ENG-004 L | Other Countries |
| ENG-004 T | the U.K., Europe, Australia, Saudi Arabia |
| ENG-004 U | West Germany |

Transistors

| 1 | ITEM | PART NUMBER | DESCR | IPTION | REA |
|---|------|---------------|---------|---------|-----|
| | | | | MAKER | |
| | 9701 | 2SC2240(A,B) | SILICON | TOSHIBA | |
| | Q702 | 2SC2240(A,B) | SILICON | TOSHIBA | |
| | 0703 | 2SC2240(A,B) | SILICON | TOSHIBA | |
| | 9704 | 2SC2240(A,B) | SILICON | TOSHIBA | |
| | Q705 | 2SA1038(S,E) | SILICON | ROHM | |
| | Q706 | 2SA1038(S,E) | SILICON | ROHM | |
| | 9707 | 2SA933LN(R/S) | SILICON | ROHM | 1 |
| 1 | Q708 | 2SA933LN(R,S) | SILICON | ROHM | |
| | Q709 | 2SA1038(S/E) | SILICON | ROHM | |
| | Q710 | 2SA1038(S,E) | SILICON | ROHM | 980 |
| | 9711 | 2SC2389(S,E) | SILICON | ROHM | |
| | 9712 | 2SC2389(S/E) | SILICON | ROHM | |

Diodes

| 7000 | | | | |
|------|--------------------------------------|--|-------------------------|------|
| ITEM | PART NUMBER | DESCR | IPTION | AREA |
| | | | MAKER | |
| 0701 | 188133 | SILICON | ROHM | |
| D702 | 188133 | SILICON | ROHM | |
| D703 | 155133 | SILICON | ROHM | T |
| | | SILICON | ROHM | U |
| | | SILICON | ROHM | Т |
| | | SILICON | ROHM | U |
| 0705 | MTZZZJC | ZENER | ROHM | |
| | D701 D702 D703 D703 D704 | D701 15S133 D702 1SS133 D703 1SS133 D703 1SS133 D704 1SS133 D704 1SS133 | TEM PART NUMBER DESCR | TEM |

Capacitors

| Æ | ITEM | PART | NUME | BER | D | Ε | S | С | R | I | Р | T | I | 0 | N | A R | ΕA |
|---|------|--------|--------|-----|-------|---|---|-----|-------|---|----|-------|------|-----|---|-----|----|
| | C701 | EEZ160 | 1-226 | | 221 | F | | 1 | 16V | | EL | E | : T1 | RO | | L | |
| | C701 | EEZ500 | 3-1067 | : | 101 | F | | | | | EL | . E (| T: | RO | | T | |
| | C701 | | 3-106Z | : | 101 | F | | - | | | EL | .E(| CT1 | RQ | | U | |
| | C702 | | | | 224 | | | - 1 | 16 V | | EL | E (| CT! | RO | | L | |
| | C702 | | 3-1062 | | 101 | | | | | | | E(| | | | T | |
| | C702 | | 3-106Z | | 101 | | | | | | EL | . E (| T | RO | | U | |
| | C703 | | | | 270 | | | | 50 V | | CE | RA | ۱M. | ΙC | | ļ | |
| | C704 | | | | 270 | | | | 5 O V | | | ER A | | | | | |
| | C705 | | | | 100 | | | | 5 O V | | | RA | | | | | |
| | C706 | | | | 100 | | | | 50V | | | R/ | | | | | |
| | C707 | | | | 330 | | | | 5 O V | | | R/ | | | | | |
| | C708 | | | | 330 | | F | | 5 O V | | | R/ | | | | | |
| | C709 | | | | 7PF | | | | 50 V | | | RA | | | | | |
| | C710 | | | | 7 P F | | | | 50 V | | | R/ | | | | | |
| | C711 | | | | 47M | | | | 16V | | | E C | | | | L | |
| | C711 | | | | 47M | | | | 16V | | | E C | | | | T | |
| | C711 | | | | 47M | | | | 16V | | | .E(| | | | U | |
| | C712 | | | | 47M | | | | 16V | | | . E (| | | | L | |
| | C712 | | | | 47M | | | | 16V | | | . E (| | | | Т | |
| | C712 | | | | 47M | | | | 16V | | | . E (| | | | U | |
| | C713 | | | | 22P | | | | 50 V | | | RA | | | | | |
| | C714 | | | | 22P | | | | 50 V | | | R/ | | | | | |
| | C715 | | | | 120 | | | | 50 V | | | R A | | | | | |
| | C716 | | | | 120 | | | | 50 V | | | R A | | I C | | | |
| | C717 | | | | 820 | | | | 50 V | | | LA | | | | | |
| | C718 | | | | 820 | | | | 50 V | | | LA | | | | | |
| | C719 | | | | 820 | | | | 50 V | | | LA | | | | | |
| | C720 | | | | 820 | | F | | 50 V | | | LA | | | | | |
| | C721 | | | | 10M | | | | 25 V | | | .EC | | | | L | |
| | C721 | | | | 10M | | | | 2 5 V | | | EC | | | | T. | |
| | C721 | QETB1E | m~106 | | 10M | F | | 4 | 25 V | | EL | E C | , 11 | ₹0 | | Ų | |
| | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |

Resistors

| A | ITEM | PART NUMBER | DESC | R 1 | РТ | . 1 | 0 | N | A R | ΕA |
|----------|------|--------------|------|------|-----|-----|----|-----|----------|----|
| | R701 | QRD167J-222 | 2.2K | 1/6W | CAR | 80 | N | | | |
| | R702 | QRD167J-222 | 2.2K | 1/6W | CAR | BO | N | | | |
| | R703 | QRD167J-104 | 100K | 1/6W | CAR | BO | N | | | |
| | R704 | QRD167J-104 | 100K | 1/6W | CAR | 801 | Ŋ | | | |
| | R705 | QRD167J-202 | 2 K | 1/6W | CAR | ВО | Né | | | |
| | R706 | QRD167J-202 | 2 K | 1/6W | CAR | BO | N | | | |
| | R707 | QRD167J-202 | 2 K | 1/6W | CAR | 80 | N | | | |
| | R708 | QRD167J-202 | 2 K | 1/6W | CAR | ВО | N | | | |
| | R709 | QRD167J-103 | 10K | 1/6W | CAR | ВО | Ų | | | |
| | R710 | QRD167J-103 | 10K | 1/6W | CAR | BOI | Ų | | | |
| | R711 | QRD167J-561 | 560 | 1/6W | CAR | BOI | V | | L | |
| | R711 | QRD167J-681 | 680 | 1/6W | CAR | BO | V | | T | |
| | R711 | QRD167J-681 | 680 | 1/6W | CAR | | | | U | |
| | R712 | QRD167J-561 | 560 | 1/6W | CAR | | | | L | |
| | R712 | QRD167J-681 | 680 | 1/6W | CAR | | | | T | |
| | R712 | QRD167J-681 | 680 | 1/6W | CAR | | | | Ü | |
| | R713 | QRD167J-104 | 100K | 1/6W | CAR | | | | | |
| | R714 | QRD167J-104 | 100K | 1/6W | CAR | | | | ĺ | |
| | R717 | QRD167J-101 | 100 | 1/6W | CAR | | | | ĺ | |
| O fracts | R718 | QRD167J-101 | 100 | 1/6W | CAR | | | | ĺ | |
| Δ | R719 | QRD145J-121S | 120 | | UNF | | | ΠN | Ť | |
| Δ | R719 | QRD145J-121S | 120 | Į. | UNF | | | | | |
| Δ | R719 | QRD145J-201S | 200 | | UNF | | | | | |
| Δ | R720 | QRD145J-121S | 120 | | UNF | | | | | |
| Δ | R720 | QRD145J-121S | 120 | 1/4W | UNF | | | | | |
| Δ | R720 | QRD145J-201S | 200 | 1/4W | UNF | | | | | , |
| _ | R723 | QRD144J-472S | 4.7K | | CAR | | | 011 | Ť | |
| | R723 | QRD144J-472S | 4.7K | | CAR | | | | Ü | |
| | R723 | QRD144J-822S | 8.2K | | CAR | | | | L | |
| | R724 | QRD144J-472S | 4.7K | | CAR | | | | Ť | |
| | R724 | | 4.7K | | CAR | | | | ·: | |
| | R724 | QRD144J-822S | 8.2K | | CAR | | | | L | |
| | R727 | QRD144J-472S | 4.7K | 1 | CAR | | | | T | |
| | R727 | QRD144J-472S | 4.7K | | CAR | | | | U | |
| ii i | R727 | | 8.2K | | CAR | | | | | |
| | R728 | QRD144J-472S | 4.7K | | CAR | | | | <u>L</u> | |
| | R728 | QRD144J-472S | 4.7K | | CAR | | | | Ù | |
| | R728 | | 8.2K | | CAR | | | | L | |
| | R729 | | 390 | | CAR | | | | Ť | |
| | R729 | | 390 | | CAR | | | | U | |
| | R729 | QRD167J-681 | 680 | | CAR | | | | Ľ | |
| | R730 | | | 1. | CAR | | | | T | |
| | R730 | | 390 | 1 | CAR | | | | Ü | |
| | R730 | | 680 | | CAR | | | | L | |
| | R731 | QRD167J-152 | 1.5K | 1 | CAR | | | - 1 | to- | |

Resistors

| | | | | | | T | | | | | | - | | _ | | _ | |
|-------------|------|--------|--------|-----|---|-----|---|---|-----|-----|------|-----|-------|---|---|------|----|
| \triangle | ITEM | PART | NUN | ИВЕ | R | D | E | S | C | S 1 | F | Т | Ī | 0 | N | A R | ΕA |
| | R732 | QRD167 | J-15 | 2 | | 1.5 | K | | 11 | 161 | 1 1 | CAR | BON | ı | | | |
| | R733 | QRD167 | J-15 | 2 | | 1.5 | K | | - 5 | 164 | | CAR | | | | | |
| | R734 | QRD167 | J-15 | 2 | | 1.5 | Κ | | 1 | 161 | | CAR | | | | | |
| | R735 | QRD167 | J - 33 | 3 | | 33K | | | - 1 | 161 | - 1 | CAR | | | | | |
| | R736 | QRD167 | J - 33 | 3 | | 33K | | | | 164 | - 5 | CAR | | | | | |
| | R737 | QRD167 | J-39 | 1 | | 390 | , | | | 161 | +4 | AR | | | | 7 | |
| | R737 | QRD167 | J-39 | 1 | | 390 | | | 1 | 164 | | CAR | | | | l ii | |
| | R737 | QRD167 | J-68 | 1 | | 680 | | | | /6V | | CAR | | | | 1 | |
| | R738 | QRD167 | J-39 | 1 | | 390 | | | 1 | 164 | | CAR | | | | T | |
| | R738 | QRD167 | J-39 | 1 | | 390 | | | 1 | 164 | | CAR | | | | Ü | |
| | R738 | QRD167 | J-68 | 1 | | 680 | | | | 16W | | ARI | | | | Ĺ | |
| | R739 | QRD167 | J-12 | 3 | | 12K | | | 1. | 16W | r lo | ARI | BON | | | L | |
| | R739 | QRD167 | J-68 | 2 | | 6.8 | K | | 1. | 16W | ı k | ARI | 3 O N | | | T | |
| | R739 | QRD167 | J-68 | 2 | | 6.8 | K | | 12. | 16W | 1 | ARE | 3 O N | | | U | |
| | R740 | QRD167 | J-12 | 3 | | 12K | | | 1. | 16W | c | AR | 30N | | | L | |
| | R740 | QRD167 | J-68 | 2 | | 6.8 | K | | 1 | 16W | C | ARI | 30N | | | T | |
| ł. | R740 | QRD167 | J-68 | 2 | | 6.8 | K | | 11. | 16W | c | ARE | 3 O N | | | U | |
| 1 | R741 | | J-12 | 3 | | 12K | | | 1. | 16W | C | ARE | BON | | | L | |
| 1 | R741 | QRD167 | J-68 | 2 | | 6.8 | K | | 1. | 6W | C | ARE | BON | | | Т | |
| | R741 | QRD167 | J-68 | 2 | | 6.8 | K | | 1. | 16W | C | ARE | 30N | | | U | |

Resistors

| AITEM | PART NUMBER | DES | CRI | PTION | AREA |
|-------|--|--|--------------------------------------|--|------|
| R74: | QRD167J-682 QRD167J-682 QRD167J-511 QRD167J-511 GRD125J-182 QRD167J-511 | 12K 6.8K 6.8K 510 510 1.8K 510 | 1/6W 1/6W 1/6W 1/6W 1/2W | CARBON CARBON CARBON UNF.CARBON | LTU |

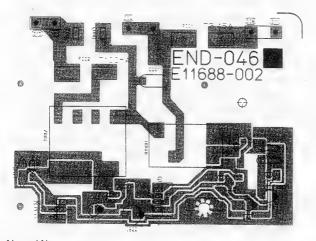
Others

| <u> </u> | 1013 | | | | | | | | | | | | | | | | | | |
|----------|-------|----------------------------|----------------|----------|---|-----|---|---|---|---|---|---|---|---|---|---|-----|-----|---|
| Â | ITEM | PART | NUM | BE | R | D | Ε | S | С | R | I | Р | Т | 1 | 0 | N | A | R E | A |
| | 07.47 | E11219 E11219 E11219 | -202(-202(| s) s) | | | | | | | | | | | | | LTU | | |
| | | EMV711 EMV510 | | | | CON | | - | | | | | | | | | | | |

▲: SAFETY PARTS

■ END-046 □ Primary PC Board Ass'y

Note: END-046 \square varies according to the areas employed. See note (1) when placing an order.



Note (1)

| PC Board Ass'y | Designated Areas | |
|----------------|------------------|---|
| END-046 C BS | the U.K. | |
| END-046 D | Europe | |
| END-046 E | West Germany | *************************************** |
| END-046 F | Australia | |

Transistors

| Δ | ITEM | PART NUMBER | DESCRIPTION | AREA |
|---|------|--------------------------|---------------------------------|------|
| | | | MAKER | |
| | | 2SC2235(0,Y) DTC114YN | SILICON TOSHIBA SILICON ROHM | |

Diodes

| A | ITEM | PART NUMBER | DESCRIPT | ION AREA |
|---|------|-------------|----------------|--|
| | | | MAK | ER |
| | D821 | 11E2 | SILICON NIHONI | NTER |
| | D822 | 11E2 | SILICON NIHONI | NTER |
| | D823 | 11E2 | SILICON NIHONI | NTER |
| | D824 | 11E2 | SILICON NIHONI | NTER. |
| | D826 | 155133 | SILICON ROHM | 200000 |
| 1 | D827 | MTZ6.2JC | ZENER ROHM | |
| | 0828 | 188133 | SILICON ROHM | to the state of th |

Capacitors

| A | ITEM | PART NUMBER | DESC | RI | ртіом | AREA |
|---|--|--|---|--------------------------|--|--------------------|
| | C001 C001 C001 C001 C821 C822 C823 C826 C828 | QCZ9019-472 QCZ9019-472 QCZ9019-472BS QCF21HP-473 QETB1CM-477 QETB1HM-105 | 4700PF 4700PF 4700PF 4700PF 0.047MF 470MF 1MF 47MF | 50V 16V 50V 16V | CERAMIC CERAMIC CERAMIC CERAMIC CERAMIC ELECTRO ELECTRO ELECTRO ELECTRO ELECTRO | D E F CBS |

Resistors

| A R821 QRD14CJ-180S 18 1/4W UNF.CARBON D R821 QRD14CJ-180S 18 1/4W UNF.CARBON E 1/4W UNF.CARBON E 1/4W UNF.CARBON E 1/4W UNF.CARBON CBS 1/4W UNF.CARBON CBS 1/4W UNF.CARBON F 1/4W UNF.CARBON F 1/4W UNF.CARBON E | A | ITEM | PΑ | RT | N | U M | В | ER | D | Е | S | С | R | I | P | Т | I | 0 | ·N | A R | ΕA |
|---|-----|------------------------------|-------------------|------------------------------|-------------------|--------------------------|---|----|-----------------------|------|---|-------|----|-------------------|------|-----|----|----------------|-------------------|-----|----|
| | A A | R821 R821 R821 R822 | QRI QRI QRI |)140)140)140)167 |] -] -] - | 180 220 220 472 | S | | 18 22 22 4.7 | 1111 | | 1 1 1 | 10 | 4 W 4 W 5 W | UNUN | IF. | CA | AR AR AR | BON BON BON | E | |

Others

| Δ | ІТЕМ | PART NUMBER DESCRIPT | ГI | O N | AREA |
|----------|----------------|---|----|-------|-----------|
| | | EMG7331-001 FUSE CLIP E11688-002(S) Circuit Board E11688-002BS(S) Circuit Board E65508-002 TAB E67764-102 WRAPPING TERMIN | | | CBS |
| | P807 | E67764-202 WRAPPING TERMIN E70859-001 EARTH PLATE EMV7112-004 CONNECTOR | AL | ••••• | |
| <u>A</u> | 1005 | ETP1000-41EA POWER TRANSFORM | ER | | D E |
| A | T002 | ETP1000-41EABS POWER TRANSFORM | | | F CB\$ |
| | RY001 RY001 | ESK1D12-113 RELAY | | | D E |
| | RY001 RY001 | | | ••••• | CBS |

A : SAFETY PARTS

Accessories List

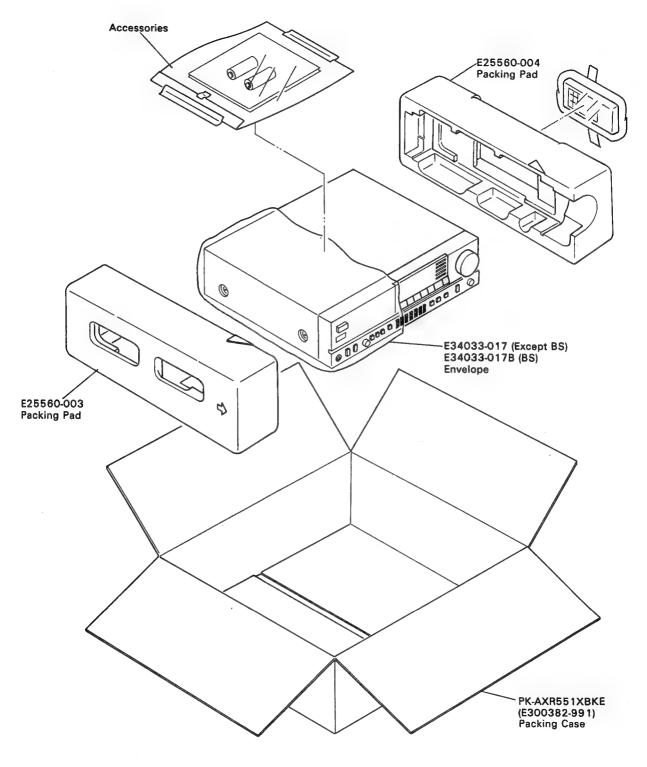
| Å | Part Number | Part Name | Q'ty | Description | Areas |
|-----------|----------------|----------------------|------|----------------------|-----------|
| | E30580-1464D | Instruction Book | 1 | | Except BS |
| | E30580-1464DBS | Instruction Book | 1 | | BS |
| | BT20029C | Warranty Card | 1 | | A |
| | BT-20117 | Warranty Card | 1 | | G |
| | BT20060 | Warranty Card | 1 | | BS |
| | BT20066A | ECC Agency | 1 | | BS |
| | BT20098 | Audio Warranty | 1 | for New Zealand | Α |
| Ţ | QMF51A2-6R3S | Fuse | 1 | | U |
| Λ | QMF51A2-5R0S | Fuse | 1 | | UE |
| | E67142-T6R3 | Fuse Label | 1 | | U |
| | E67142-T5R0 | Fuse Label | 1 | | UE |
| | E35497-015 | Caution Sheet | 1 | 220V | U,UE |
| Δ | EMC0201-001BS | AC Plug | 1 | | BS |
| | QZL1008-001 | FTZ Imfomation Sheet | 1 | | G |
| ⚠ | E04056 | Siemens Plug | 1 | | U,UE |
| | E43486-340A | Safety Sheet | 1 | | BS |
| | E43486-353B | Instruction Sheet | 1 | , | UE |
| | RM-SA551 | Remote Control Unit | 1 | | • |
| | UM-3(DJ)-2PSA | Battery | 1 | | |
| | E6581-4 | Envelope | 1 | | U,UE |
| | E41202-2 | Envelope | 1 | for Instruction Book | Except BS |
| | E41202-2B | Envelope | 1 | for Instruction Book | BS |

⚠ Safety Parts

The Marks for Designated Areas

| AAustralia | UESaudi Arabia |
|---------------|------------------------------|
| EEurope | UOther Countries |
| GWest Germany | No mark indicates all areas. |
| BSthe U.K. | |

Packing Materials and Part Numbers

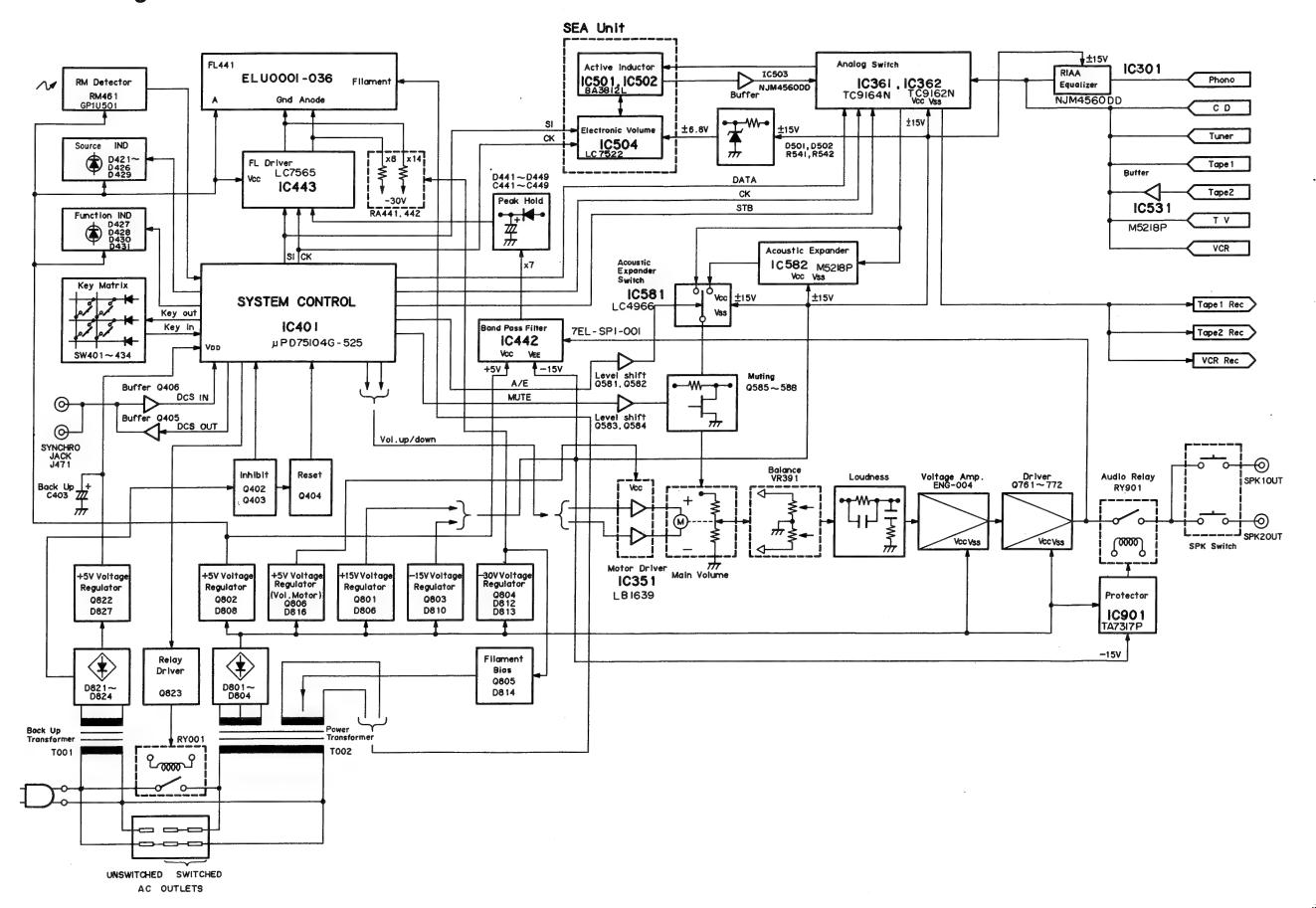


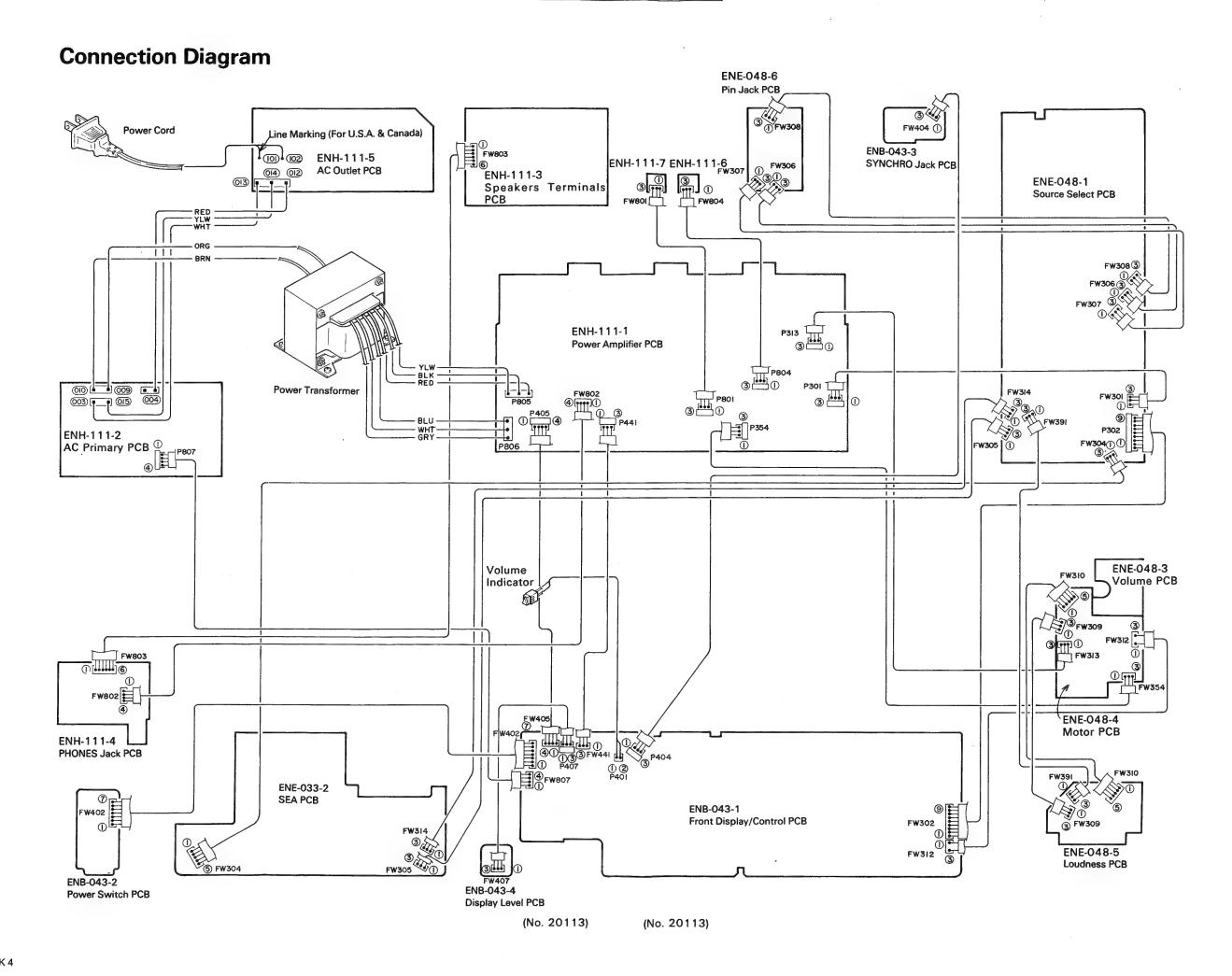
| The Marks for | Designated Areas |
|------------------|------------------------------|
| A······Australia | BSthe U.K. |
| EEurope | UOther Countries |
| , | No mark indicates all areas. |
| UESaudi Arabia | |

- MEMO -

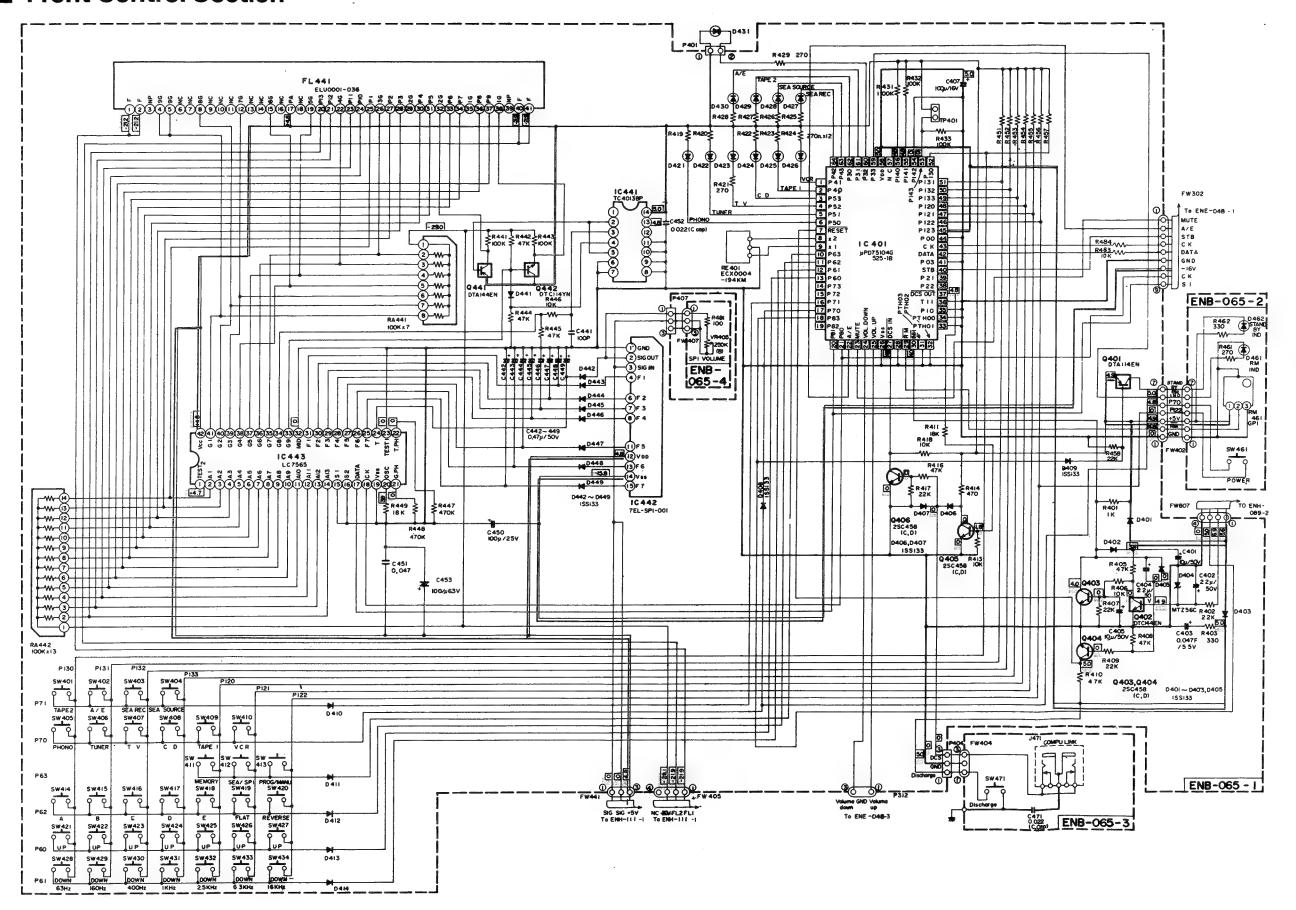
- MEMO -

Block Diagram



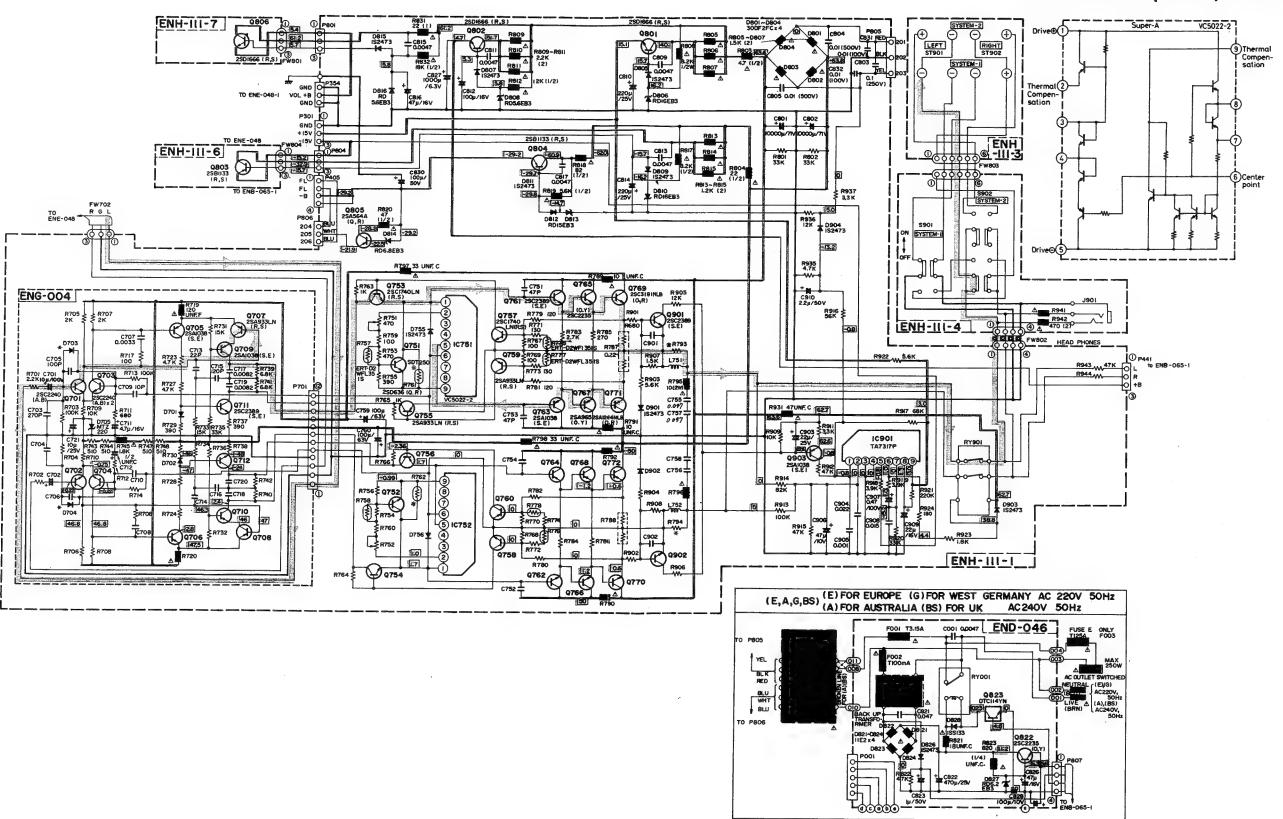


■ Front Control Section



■ Power Amplifier Section (for Saudi Arabia, Australia, the U.K. and Continental Europe)

■ VC5022-2 (IC751, IC752)

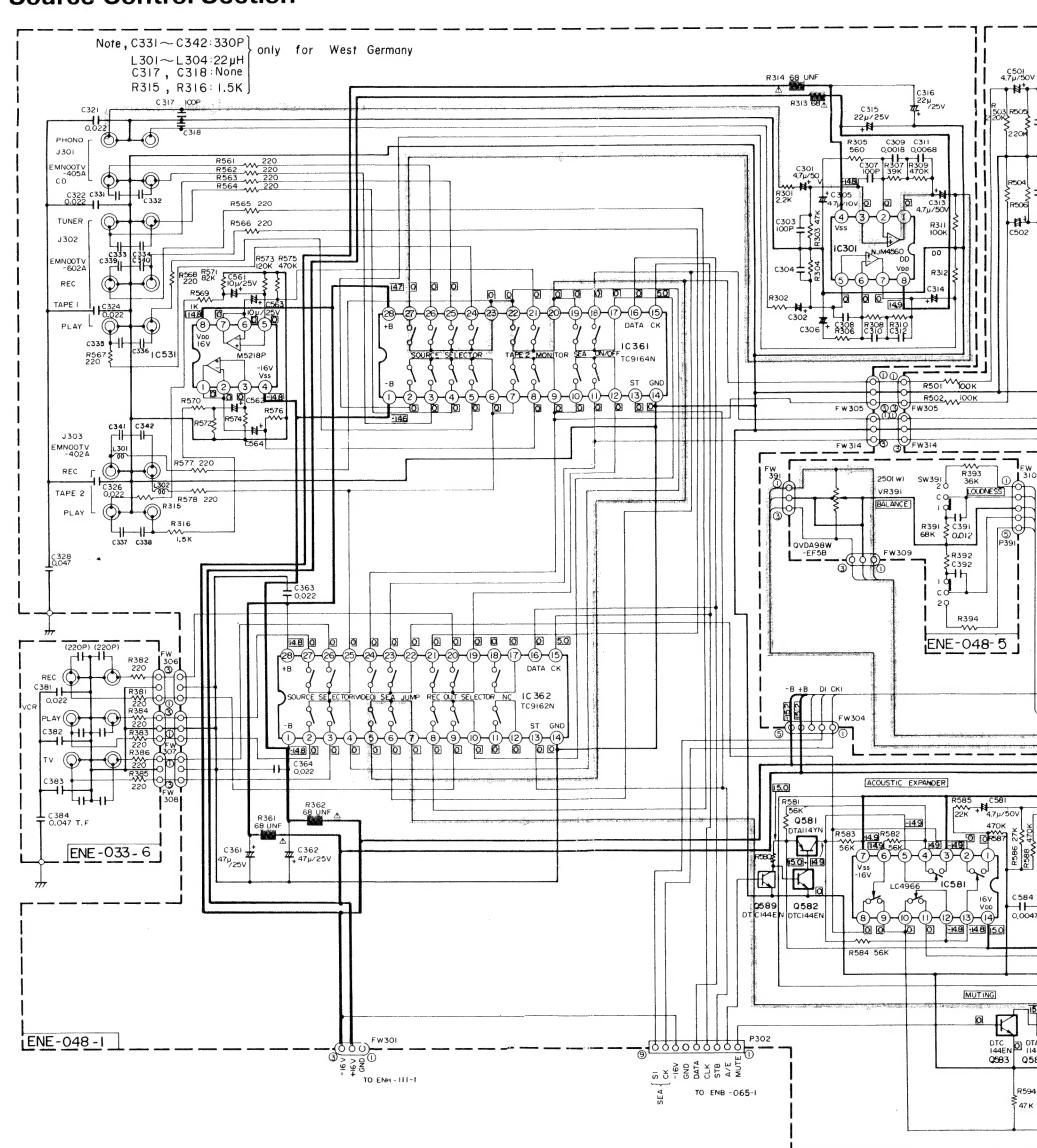


Schematic Diagrams

■ Source Control Section

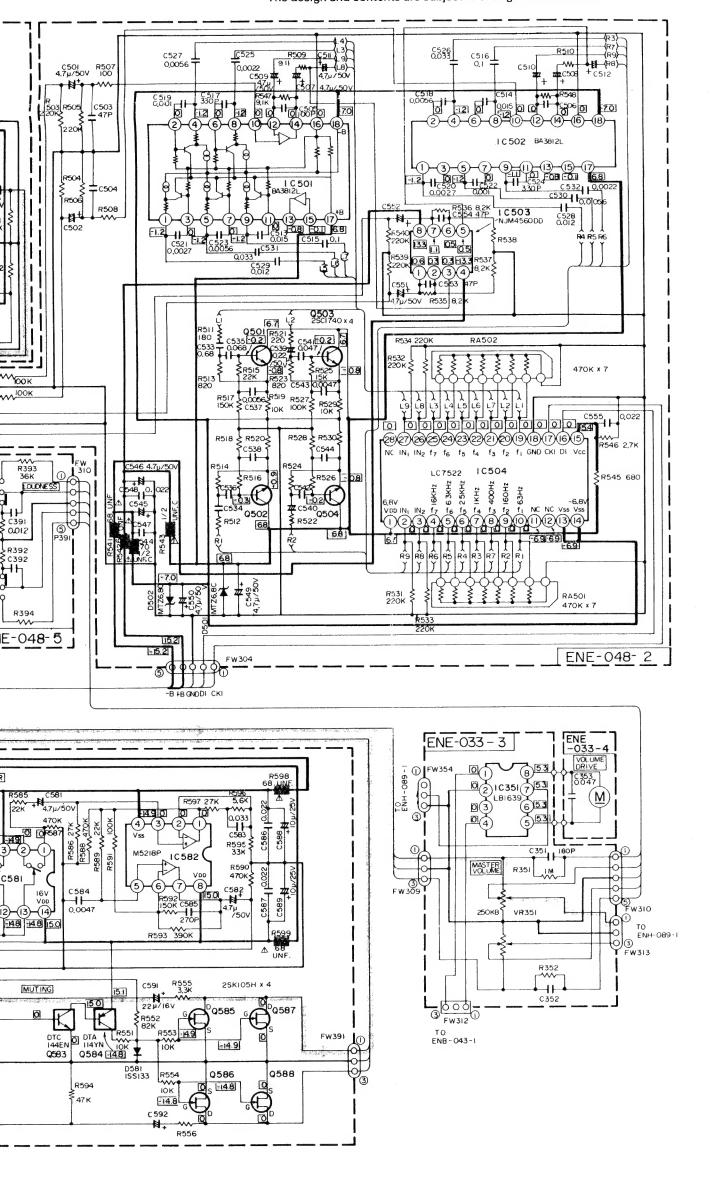
Notes

- 1. shows DC voltage to the chass
- 2. indicates \pm B power supply.
- 3. Assi indicates signal path.



tage to the chassis with no signal input. power supply. al path.

- 4. When replacing the parts in the darkened area () and those marked with Δ , be sure to use the designated parts to ensure safety.
- This is the standard circuit diagram.
 The design and contents are subject to change without notice.



Power Amplifier Section

